AIR RESOURCES BRANCH

MONITORING AND INSTRUMENTATION DEVELOPMENT GROUP
TECHNOLOGY DEVELOPMENT AND APPRAISAL SECTION

ARB-TDA Report No. 04-75

REPORT ON AMBIENT AIR QUALITY SURVEY

IN

FORT FRANCES AND INTERNATIONAL FALLS

(NOVEMBER 1974)

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Ministry of the Environment
Air Resources Branch
880 Bay Street
Toronto, Ontario.

APRIL 1975

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01. SUMMARY

The results of the Fort Frances and International Falls survey show that both the Boise Cascade Corp. kraft mill in International Falls and the Ontario-Minnesota Pulp and Paper Co. Ltd. kraft mill in Fort Frances are sources of Particulate Matter and Hydrogen Sulfide pollution, with the plant in International Falls being the major source. During the survey period, both Ontario and Minnesota ambient air quality standards for Suspended Particulate Matter and Hydrogen Sulphide were often exceeded by 100% and more for prolonged periods of time at many locations in the towns of Fort Frances and International Falls.

02. RECOMMENDATIONS

i) Three permanent stations for monitoring of suspended Particulate Matter and Hydrogen Sulfide and one meteorological station should be established in Fort Frances. Based on the results of this survey, the following locations are suggested:

1) On Victoria Ave. Between Sinclair and Nelson St.

This location would cover the eastern residential district and the area of the La Verendrye Hospital. With 90° wind it will monitor combined pollution from both plants impinging on this sensitive area.

2) On Portage Ave. and Scott St.

This location covers the downtown area. With 150° wind it monitors the Canadian plant and with 110° wind it monitors the plant located in the U.S.A.

3) On Rainy River Colonisation Rd. at Fort Frances Cemetery

This station covers the western residential district of Fort Frances and the area of Alexander Mackenzie School. It monitors with 210° wind the plant located in USA and with 260° wind the Canadian plant.

Public buildings are in all three locations (Loc. 1- hospital, location 2 - government building, location 3 - public school and/or cemetery administration building) which may simplify the establishment of permanent monitoring stations. The best location for the meteorological station would be location 3, where there are minimum obstructions.

ii) A control abatement programme should be implemented in order to reduce emissions of Particulate Matter and Hydrogen Sulfide from the Ontario-Minnesota Pulp and Paper Company kraft mill at Fort Frances to acceptable levels. A similar action should be discussed

with the Minnesota Pollution Control Agency for the Boise-Cascade Corp. kraft mill in International Falls, U.S.A.

iii) A continuous monitoring system for Particulate Matter and Hydrogen Sulfide at the point of emission should be installed by the plant owners.

03. INTRODUCTION

On October 31, 1974, the Air Resources Branch was requested by Northwestern Region to conduct a special air quality survey in the Fort Frances-International Falls area. The Monitoring and Instrumentation group left Toronto Monday, November 4, 1974 and arrived at Fort Frances in the late afternoon Wednesday, November 6, 1974. A meeting was held Wednesday morning, November 6 with W.M. Vrooman, Manager, Technical Support Section and H.D. Griffin, Chief, Air Quality Assessment in the Region's office in Thunder Bay.

During the investigation, it was requested that monitoring be carried out for levels of Hydrogen Sulfide, Sulphur Dioxide, Carbon Monoxide, Total Hydrocarbons, and Suspended Particulate Matter. During the operation, a distinction had to be established between contaminant levels attributed to each of the two major sources. By arrangement with Minnesota Pollution Control Agency and Air Resources Branch, air monitoring was to be carried out on either side of the Canadian/U.S.A. border, depending on day to day variation in wind direction.

The survey was conducted from November 7 to November 19, 1974.

04. SOURCE DESCRIPTION

The towns of Fort Frances and International Fall form practically one community on opposite sides of Rainy River in northwestern Ontario. The two industrial plants being monitored were sulfate kraft mills.

The Boise Cascade Corp. kraft mill, International Falls, is the older of the two plants and had been the source of numerous complaints from Fort Frances residents during the summer and fall of 1974. The source of pollution is the recovery boiler for the black liquor which may emit Particulate Matter with significant concentration of Sodium Sulphate, Hydrogen Sulfide, Carbon Monoxide and Hydrocarbons. Because of the constantly decreasing efficiency of the electroprecipitator, the emission rate of particulate matter with the following complaints reached the highest level in fall 1974 and in November the plant was forced to take some action to control the high emission rate. The source is located approximately 200 meters west of the bridge across the Rainy River.

The main pollution source in the Ontario-Minnesota Company plant, Fort Frances, is also the recovery boiler for the black liquor. It is located approximately 50 meters South of Sinclair Rd. between Portage and Victoria Ave. It may emit particulate matter with significant concentration of Sodium Sulphate, Calcium Sulphate or Carbonate and Hydrogen Sulfide, Carbon Monoxide and Hydrocarbons. Another source of particulate matter can be the wood chips piles, located in the same area. The wood chips are transported to the piles by blowers and because the piles are in open space without any protection, wind blows off wood dust and fibres without any control.

05. MONITORING TECHNIQUE

A mobile monitoring unit was used to monitor the emissions from both plants. It is built in a Ford-Econoline E-200 van, with a raised roof and analysers permanently installed for monitoring of Sulfur Dioxide, Carbon Monoxide, Hydrogen Sulfide, Total Hydrocarbons, Nitric Oxide, Nitric Dioxide and Oxides of Nitrogen. Analyser outputs are displayed and recorded on a 6-channel recorder and/or connected to a Hewlett-Packard Data Acquisition System, recorded on a punch tape and accumulated data evaluated later by a computer system. The station has its own 3.5 KW power supply or it can be connected to any available external power source when it is in a permanent position.

A station wagon with a built-in Sulfur Dioxide analyser was used to support the mobile monitoring station, transport the crew, and carry the Hi-Vol sampling equipment.

Following assessment of wind direction and speed, the approximate location of maximum ground level concentration of pollutants was established and air monitoring began at this point. Air quality was monitored for at least a 30-min period and whenever possible, monitoring farther downwind of the source was also carried out.

Samples of suspended particulate matter were collected only at the point of the highest pollution since the Hi-Volume sampling technique did not permit short duration monitoring.

06. ANALYTICAL TECHNIQUE

Sample Collection

The air sample was taken by a plastic probe from a point approximately 5 meters above the ground level and drawn through a manifold with a flow-rate of approximately 300 litre/min. Each analyser was connected to the manifold by its own sampling line of minimum length. This arrangement ensured minimum response delay as well as little or no contamination by vehicular traffic or adsorption and desorption processes or else in the probe.

Hydrogen Sulfide

The electrochemical analyser "PICOS" - Hartmann & Braun was used for the monitoring of Hydrogen Sulfide. The maximum sensitivity was 200 ppb H_2S (full scale) which could be decreased to 2 ppm (full scale) although short time concentration of up to 4 ppm could be monitored utilizing the digital voltmeter of the Data Acquisition System.

The response time $T_{90\%}$ of the analyser is less than 120 sec. The analyser responds to Mercaptans as well as Hydrogen Sulfide. Because a field source of Hydrogen Sulfide calibration gas was not available, the analyser was calibrated with a known source immediately before departure for Fort Frances and again on return to Toronto. The differences in calibration were within the limits of ±5%.

Sulfur Dioxide

The conductivity analyser "ULTRAGAS-3" - Westhoff Bochum was used for monitoring of Sulfur Dioxide. A weak solution of Hydrogen

Peroxide acidified with Sulfuric Acid was used for the absorption of Sulfur Dioxide and the change in the solution conductivity correlated to the Sulphur Dioxide concentration in the air sample.

The maximum sensitivity of the analyser was 1 ppm SO_2 (full scale) with the response time $T_{90\%}$ less than 120 sec. The analyser is not sensitive to CO_2. A special filter to eliminate the influence of HCl, Cl_2 and NH_3 is built in.

The analyser was calibrated before leaving for the survey and during the survey the calibration was checked several times a day by a built-in electronic circuitry. The analyser is extremely stable and the calibration stays within the limits over several months.

The Sulfur Dioxide analyser in the station wagon was a conductivity analyser "SIGN-X" using deionized water for the absorption of Sulfur Dioxide. The instrument is sensitive to CO_2 as well as to any acid or alkaline gases. Its response time is very short ($T_{90\%}$= 2 - 5 sec) and this feature has been of great value in plume tracking.

Carbon Monoxide

A non-dispersive infrared analyser "URAS"-2T" Hartmann & Braun was used for monitoring of Carbon Monoxide. Sensitivity was 50 ppm CO (full scale) with the response time $T_{90\%}$ less than 60 sec.

The analyser was recalibrated during the survey several times a day by a gas mixture with a known concentration of carbon monoxide. Zero and span change were well below the limits for this method and instrument.

Total Hydrocarbons

A flame ionization detector unit RS-5 - IPM was used for the monitoring of Total Hydrocarbons. The sensitivity of the analyser was 20 ppm CH_4 (full scale). Analyser response time $T_{90\%}$ was less than 0.5 sec. The instrument was recalibrated several times a day with a gas mixture of a known concentration of Methane. Total Hydrocarbons were expressed as ppm CH_4, Zero and span change were well within the limits.

Suspended Particulate Matter

A standard Hi-Vol sampler was used for the collection of suspended particulate matter.

Because dust samples collected on glass fibre filter cannot be analyzed for Sodium and Calcium (to high and variable blank) on many occasions a parallel sample of particulate matter was collected using as filter media a Delbag-Microsorban polystyrene fibre filter.

The Hi-Vol samplers were usually operated at the point of the heaviest pollution for at least two hours.

Analysis of the filters for Total Particulate Matter, Calcium, Sodium, Sulfate, Total Sulfur and Carbon were performed by the Air Quality Laboratory of the Ministry of the Environment.

07. METEOROLOGICAL CONDITIONS

Meteorological conditions (wind direction, wind speed, and temperature) in Fort Frances were monitored during the survey by a mechanical MRI weather station located in open space at Elm Ave. & River Drive (Location 26) approximately 4 meters above the ground level. Summary of the meteorological conditions is given in Table 1.

TABLE 1 METEOROLOGICAL CONDITIONS

	HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1/07	WIND DIR									180	180	180	270	240	240	240	240	210	210	210	270	90	120	120	
	WIND SPEED									5	5	5	1	1	1	1	1	1	1	1	1	1	1	5	
	TEMP °F									40	45	50	45	40	35	35	31	30	30	30	30	30	30	30	
1/08	WIND DIR																								
	WIND SPEED																								
	TEMP °F																								
1/09	WIND DIR	240	240	240	240	240	240	240	240	270	270	270	270	270	270	270	270	240	270	240	240	240	240	240	24
	WIND SPEED	5	3	3	3	3	5	5	5	5	5	5	5	5	5	5	2	2	2	2	2	2	2	2	5
	TEMP °F	40	37	35	32	30	30	30	35	36	40	40	45	45	45	40	35	32	30	30	28	26	25	22	4
1/10	WIND DIR	210	180	300	300	330	330	300	300	180	120	60	60	60	60	30	0	330	330	330	330	330	330	0	21
	WIND SPEED	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.3	1.3	1.3
	TEMP °F	20	20	18	18	18	18	20	25	31	38	40	40	36	37	35	30	25	23	23	22	22	22	22	2
1/11	WIND DIR	330	330	330	330	330	330	330	330	330	330	330	330	330	330	330	330	330	330	330	330	330	330	330	33
	WIND SPEED	1.3	1.3	1.3	2	2	2	2	2	5	5	7	7	7.5	7.5	5	5	5	5	5	5	5	5	5	5
	TEMP °F	20	20	20	20	20	20	21	25	28	29	30	30	30	30	25	25	25	25	25	23	22	22	22	2
1/12	WIND DIR	0	330	0	0	0	330	330	330	0	330	330	330	330	330	300	300	300	300	300	300	300	300	300	30
	WIND SPEED	5	5	5	5	5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	5	5	5	5	5	5	5	5	5	5
	TEMP °F	20	20	20	20	20	19	19	19	20	20	20	20	21	20	20	20	18	18	18	18	18	17	17	17
1/13	WIND DIR	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	30
	WIND SPEED	5	5	5	5	5	5	5	5	7.5	10	10	7.5	10	10	7.5	7.5	7.5	7.5	7.5	5	5	5	7.5	7.5
	TEMP °F	17	17	15	15	14	14	15	16	17	18	18	18	18	18	18	17	16	15	15	15	15	14	14	13
1/14	WIND DIR	300	300	300	270	270	270	270	270	330	300	270	300	300	300	300	300	300	270	300	300	300	300	300	27
	WIND SPEED	7.5	5	5	5	5	5	5	5	7.5	7.5	7.5	7.5	10	10	10	10	7.5	10	10	10	10	10	7.5	7.5
	TEMP °F	14	13	12	12	11	11	12	14	15	17	19	20	20	18	18	18	18	19	20	20	20	19	19	18
1/15	WIND DIR	270	270	270	270	270	270	270	270	240	240	240	240	270	240	240	240	240	240	210	210	240	240	240	24
	WIND SPEED	7.5	7.5	5	5	5	5	5	5	5	5	7.5	7.5	7.5	5	5	5	3	2.5	2.5	2.5	2.5	2	2	
	TEMP °F	18	17	15	14	14	13	12	14	16	18	20	22	23	26	26	22	20	19	18	17	15	17	18	18
1/16	WIND DIR	270	240	180	210	360	180	180	180	180	180	240	240	240	240	180	180	180	180	180	180	180	180	180	18
	WIND SPEED	2	2	2	2	2	2	2	3	3	3	3	3.5	3.5	2.5	2.5	2.5	2.5	3	3	3	4	4	4	5
	TEMP °F	18	19	19	19	20	20	20	20	21	22	22	22	23	24	25	22	19	18	18	17	16	17	17	18
1/17	WIND DIR	180	180	180	180	210	210	240	240	240	270	270	300	300	270	270	270	240	240	240	240	240	240	240	24
	WIND SPEED	5	5	5	5	5	5	5	7.5	7.5	7.5	7.5	7.5	7.5	5	5	3	3	3	3	3	3	3	3	3
	TEMP °F	17	18	19	20	20	20	20	21	25	30	34	34	34	34	33	30	26	25	24	23	22	21	20	18
1/18	WIND DIR	240	240	240	240	240	240	180	210	210	180	180	180	90	60	90	60	90	90	90	90	90	90	120	120
	WIND SPEED	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2	2	2	2	2	3	3	3	5	5	5	5	5	5	5	5
	TEMP °F	17	16	15	14	14	14	13	16	23	27	32	36	37	35	35	33	30	30	30	30	30	28	28	2
1/19	WIND DIR	90	90	90	90	120	120	120	120	90	90	90	90	60	60	60	60	30	30	0	0	0	0	330	33
	WIND SPEED	5	5	7.5	7.5	5	5	5	5	4	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	TEMP °F	28	28	28	28	28	28	28	27	27	28	28	29	29	29	28	28	27	26	26	26	26	24	24	2

08. SAMPLING SITE LOCATION

Sampling site locations are shown on the maps of Fort Frances and International Falls. Table 2 provides location description. Regardless whether in Fort Frances or International Falls, all sites are described as "Ft. Frances" and appropriate No.

TABLE 2

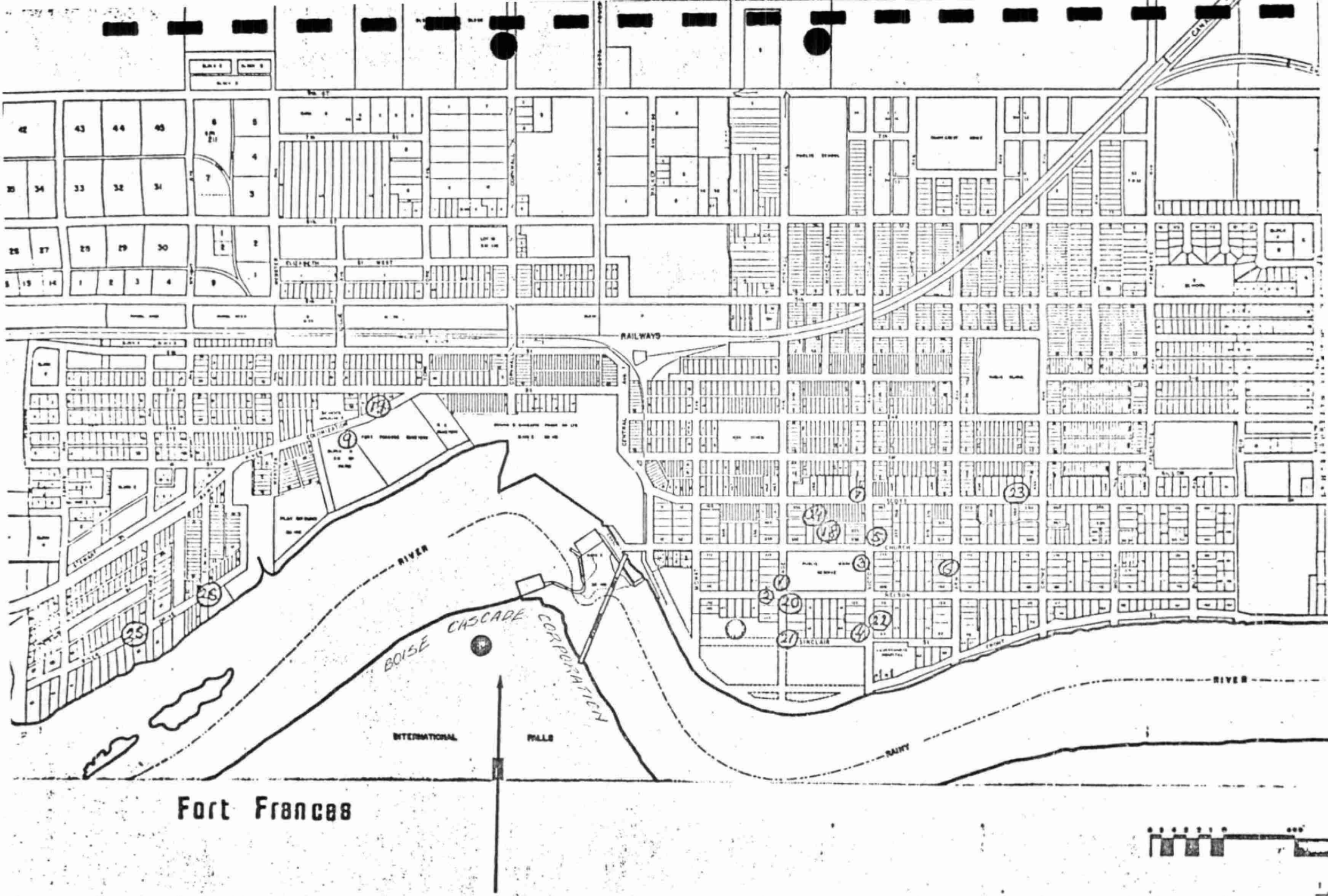
LOCATION OF SAMPLING SITE IN FORT FRANCES

BC = Source at Boise Cascade Corp.
OM = Source at Ontario-Minnesota Comp.

NO.	DESCRIPTION
1	At Portage Ave. 50 m. N. of Nelson Rd., 150 m NE of OM
2	On Nelson Rd. 15 m. W of Portage Ave., 100 m NE of OM
3	On Victoria Ave. 15 m S of Church Rd., 400m NE of OM
4	On Victoria Ave. 15 m S of Sinclair Rd., 350 m E of OM
5	On Victoria Ave. 15 m N of Church Rd., 450 m NE of OM
6	At #312 Armit Ave., 600 m NE of OM
7	On Scott Rd., 30 m E of Victoria Ave., 600 m NEN of OM
8	- - - - - -
9	On Hwy. 11 (Rainy River Colonisation Rd.) and Lillia Ave., 600 m NWN of BC
10	Int. Falls, U.S.A., 2nd St. and 3rd Ave. W, 400 m SE of BC
11	Int. Falls, U.S.A., 3rd St. and 3rd Ave. W, 500 m SES of BC
12	Int. Falls, U.S.A., 3rd St. and 2nd Ave. W, 600 m SE of BC
13	Int. Falls, U.S.A., Minnesota Hwy. #11, 2 miles E of 2nd Ave. W, 1000 m SE of BC
14	Int, Falls, U.S.A., 3rd Ave. E, 500 m S of Hwy #11, 1.5 km SE of BC
15	Int. Falls, U.S.A., 3rd Ave. E and 12th St. W, 1.8 km SES of BC
16	Int. Falls, U.S.A., S of the USA Customs and Immigration Bldg. 350 m ENE of BC
17	Int. Falls, U.S.A. N of the USA Customs and Immigration Bldg. 350 m ENE of BC
18	Scott Rd. parking lot on the E side of the Makabi Inn Motel, 400 m NE of OM

TABLE 2 (Continued)

NO.	DESCRIPTION
19	On Hwy #11 (Rainy River Colonisation Rd.) and #231 3rd St. W., 600 m NWN of BC
20	On Portage Ave. S of Nelson Rd, 150 m NE of OM
21	On Portage Ave. N of Sinclair Rd., 100 m E of OM
22	On Victoria Ave. 15 m N of Sinclair Rd., 350 m E of OM
23	On Scott Rd. 30 m W of Crowe Ave., 800 m NE of OM
23A	- " -
24	On Scott Rd. parking lot on the E side of the Makabi Inn motel 400 m NE OF OM
25	At #634 River Dr. (and Holmes Ave.), 550 m W of BC
26	River Dr. and Elm Ave, 450 m W of BC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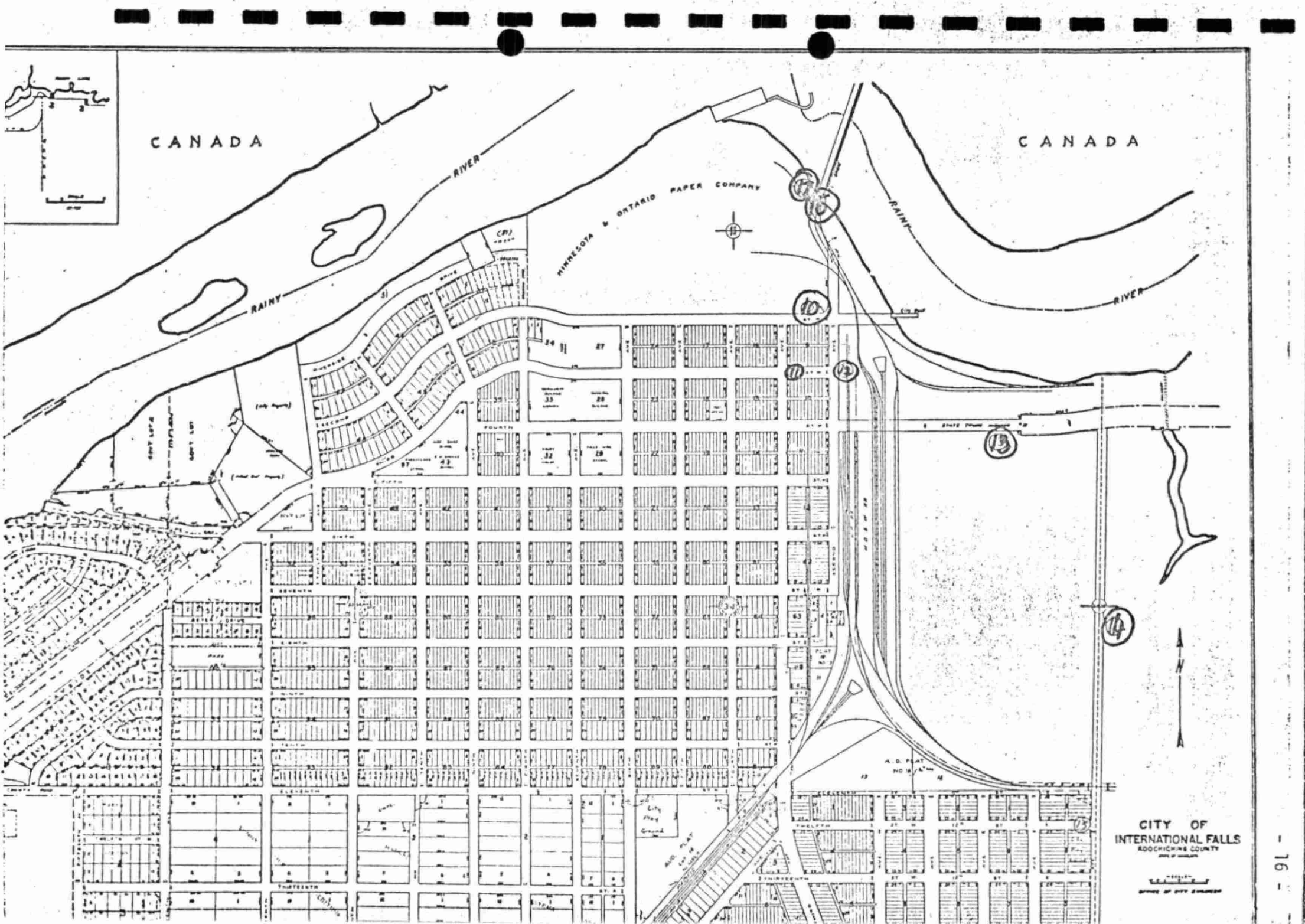
BOISE CASCADE CORPORATION
INTERNATIONAL
FALLS
RAINY
RIVER
Fort Frances


CANADA
RAINY RIVER
MINNESOTA & ONTARIO PAPER COMPANY
CANADA
RAINY RIVER
CITY OF
INTERNATIONAL FALLS
KOOCHICHING COUNTY

09. RESULTS OF THE SURVEY

The results of the survey are tabulated in Tables "Ft. Frances" #1 to #26 as running 30-min. averages with all results expressed in ppm(print out is in scientific notation, 3.026E-01 = 0.303 ppm). In Figures 1 to 27 all the data for the running averages of Hydrogen Sulfide were plotted versus time together with the maximum and minimum concentrations for the running average. Figures 9 and 17 were duplicated in Figures 10 and 18, respectively because some maximum concentrations were out of scale in the original graph. All concentrations are expressed in ppm.

Meaning of Some Symbols

Scanning time:	Frequency of interrogation of the monitoring instrumentation by the Data Acquisition System
Time:	Time of the last reading (scanning) for the running average.
No. of Readings:	Number of running averages.

All statistical values are based on running averages. A summary of suspended particulate matter analysis is contained in Table 3.

TABLE 3

TOTAL SUSPENDED PARTICULATE MATTER ANALYSIS

No.	Date	Time	Location	Particulate Loading ug/m^3	Ca ug/m^3	Na ug/m^3	SO_4 ug/m^3	Total S as $ugSO_4''/m^3$	Total C ug/m^3
1	Nov. 8	(Nov.9) 11:00-9:00	Ft. Frances cemetery	-	0.7	27.5	38.3	-	-
2	Nov. 9	(Nov. 10) 21:00-21:00	"	-	0.6	0.3	2.7	-	-
3	Nov. 10	(Nov. 11) 21:00-21:00	"	-	0.1	N.D.	0.2	-	-
4	Nov. 12	(Nov. 13) 9:00-9:00	"	-	0.1	0.2	0.1	-	-
5	Nov. 13	11:15-13:15	Location #12	364.5	25.1	31.3	58	109	75.3
6	Nov. 13	14:30-18:45	Location #12	279.9	24.7	22.0	46	78	34.5
7	Nov. 14	12:00-14:15	Location # 16	1030	56.4	80.6	117.5	206	118.9
8	Nov. 14	15:15-17:10	"	538	-	-	-	-	61.7
9	Nov. 15	(Nov.16) 18:35-8:50	Location # 18	51.0	2.8	2.0	7.0	20	6.5
10	Nov. 16	9:40-14:15	Location #19	58.2	2.2	0.8	8.0	18	7.5
11	Nov. 16	(Nov.17) 14:45-8:45	Location #20	348	63.5	6.3	14.0	30	27.4
12	Nov. 17	8:55-13:45	Location #20	75.3	3.5	5.96	15.0	22	95.9
13	Nov. 17	(Nov.18) 14:10-9:00	Location #21	630	30.0	5.1	10.0	20	45.5
14	Nov. 18	9:30-15:50	Location #24	241	4.1	3.0	19.0	17	24.1
15	Nov. 19	(Nov.20) 9:10-10:20	#702 River Dr.	26.7	0.7	1.9	5.0	9	5.4

10. DISCUSSION

As it can be seen from the Tables "Fort Frances" #1 to 26, the 30-min. average levels of the Sulfur Dioxide, Carbon Monoxide at the Point of Impingement were during monitoring of both plants well below the standards of the Province of Ontario.

The concentration of Hydrogen Sulfide in the plume path of both plants was high and the smell very distinctive. The monitoring crew suffered often of sore eyes and upset stomach mainly in the first week of the monitoring.

The Ontario standard (1) for the concentration at the point of impingement, averaged over 30 min. is 30 ug/m^3 (20 ppb) for Hydrogen Sulfide and 100 ug/m^3 for Suspended Particulate Matter.

The standard of the State of Minnesota (2) uses the following criteria:

i) Maximum concentration of 0.05 ppm H_2S over ½ hour average should not be exceeded more than two times per year.

ii) Maximum concentration of 0.03 ppm H_2S over ½ hour hour average should not be exceeded more than two times in any five consecutive days.

iii) For Suspended Particulate Matter the standard is 75 ug/m^3 maximum annual geometric mean and 260 ug/m^3 maximum 24-hour concentration not to be exceeded more than once a year.

1) The Environmental Protection Act 1971, Revised Regulation O. Reg 873/74, The Ontario Gazette 1974 pp 4753 and 4755.

2) Minnesota Pollution Control Agency, Minnesota State Regulations. Air Pollution Control Rules, Regulations and Air Quality Standards. April 1972, Supplement Document Section, Minnesota Dept. of Administration.

The Ontario-Minnesota Corp. Paper Mill - Fort Frances

On November 7, 1974, the Boise Cascade Plant in International Falls was shut down due to emergency repairs on the recovery boiler and no plume was visible from the plant. All the readings, taken during this day, are therefore indicative of the pollution coming only from the Ontario-Minnesota Pulp and Paper Company Plant. (See Tables "Ft. Frances" #1 to #7 and Figures #1 to 7). On this occasion air monitoring covered the downtown and residential area NE of the plant. The Ontario-Minnesota Pulp and Paper Company plant exceeded the Ontario standard for the 30-min. average concentration of Hydrogen Sulfide in five locations (Table 4) for total period of time of 5 hours, 42 min.

The Ontario-Minnesota Paper & Pulp Comp. was monitored later on several occasions after the Boise Cascade Corp. recovery boiler was in operation. Wind directions and plume dispersal observations confirmed that Boise Cascade operations could not have contributed to recorded Hydrogen Sulfide concentration.

The Ontario-Minnesota Pulp and Paper Company kraft mill exceeded Ontario standards for the 30-min. average concentration of Hydrogen Sulfide in nine locations (see Table 5 & Tables Fort Frances #18, 20 to 24 and Figures 18 to 25) for a total period of time of 40 hours, 17 mins.

Samples of Suspended Particulate Matter, collected downwind of the plant, are listed in Table 3, Nos. 9, 11, 12, 13, and 14. Some collected samples (Nos. 11 and 13) contained visible amount of

TABLE 4

PERIODS DURING WHICH HYDROGEN SULFIDE EMITTED BY ONTARIO-MINNESOTA PULP AND PAPER CO. LTD. KRAFT MILL EXCEEDED THE ONTARIO STANDARD AT THE POINT OF IMPINGEMENT (BOISE CASCADE MILL SHUT DOWN)

Location No.	Date	Time From	Time To	Duration of the Episode
1	Nov. 7/74	10:34	11:40	66 min.
2	Nov. 7/74	11:28	13:04	96 min.
3	Nov. 7/74	13:25	14:45	70 min.
4	Nov. 7/74	14:58	15:38	40 min.
7	Nov. 7/74	18:36	19:46	70 min.

TABLE 5

PERIODS DURING WHICH HYDROGEN SULFIDE EMITTED BY ONTARIO-MINNESOTA PULP AND PAPER CO. LTD. MILL EXCEEDED THE ONTARIO STANDARD AT THE POINT OF IMPINGEMENT (BOISE-CASCADE MILL IN OPERATION)

Location No.	Date	Time		Duration of the Episode
		From	To	
18	Nov. 15, 1974	18:30	23:00	278 min.
18	Nov. 15, 1974	23:30	24:30	60 min.
18	Nov. 16, 1974	02:22	03:24	62 min.
20	Nov. 16, 1974	12:10	15:30	200 min.
21	Nov. 17, 1974	11:30	13:05	95 min.
22	Nov. 17, 1974	14:42	16:27	129 min.
23A	Nov. 17, 1974	17:40	18:30	40 min.
24	Nov. 17, 1974	19:23	20:04	41 min.
24	Nov. 17, 1974	20:30	09:42	1512 min.

fibrous material (wood) and significantly high concentrations of Calcium and Sulfate Ion (background concentrations are usually 1.5 ug $SO_4^{"}/m^3$ and 5 ug Ca/m^3). All samples show a significantly increased concentration of Sodium (background concentration are unusually 0.2-0.3 ug/m^3).

Results of monitoring confirm that the emissions from the Ontario-Minnesota Pulp and Paper Company kraft mill exceed often the standards of the Province of Ontario for Suspended Particulate Matter and Hydrogen Sulfide at the point of impingement. Three out of five Hi-Vol samples exceeded the standard for particulate matter and the standard for 30-min. average of Hydrogen Sulfide was exceeded for a period of 45 hours, 59 min. out of a total monitoring time of 57 hours, 27 min. representing 80% of the total monitoring time.

The Boise Cascade Corp. Kraft Mill - International Falls

The plume from the Boise Cascade Corp. Kraft Mill was monitored for Total Suspended Particulate Matter and Hydrogen Sulfide on the USA territory in International Falls as well as on the Canadian side of the border in Fort Frances. Visual observation and continuous monitoring of meteorological conditions ensured that the mobile unit monitored only the Boise-Cascade emissions.

Table 6, Tables "Fort Frances" #9, 19, 25 and 26 and Figures 8, 19, 26 and 27 all show that the 30-min. average concentration of Hydrogen Sulfide in Fort Frances attributed to Boise-Cascade emissions (Location Nos. 9, 19, 25 and 26) exceeded the Ontario Standard for a total of 11 hours 35 min. out of 12 hours, 57 min. monitoring representing 90% of the total monitoring time. The Minnesota standard of 0.05 ppm H_2S was exceeded for 9 hours, 17 min. which represents 71% of the total monitoring time and the Minnesota standard of 0.03

ppm H_2S was exceeded for 10 hours, 57 min. representing 84% of the total monitoring time.

In International Falls (Loc. 10, 11, 12, 13, 14, 15 and 16 and Tables "Ft. Frances" #10 to 16, Figures #9 to 16) the monitored Hydrogen Sulfide levels were very high and the Ontario standard was exceeded for 19 hours, 03 min. out of 19 hours, 06 min. monitoring time which represent almost 100% of the total monitoring time. The Minnesota standard of 0.05 ppm H_2S was exceeded for 18 hours, 50 min. of monitoring, which represents 99% of the total monitoring time and the Minnesota standard of 0.03 ppm H_2S was exceeded for 18 hours, 50 min. of monitoring which represents 99% of the total monitoring time.

Samples of Total Suspended Particulate Matter, collected in the plume path of the Boise Cascade Corp. plant, (Table 3, Nos. 5, 6, 7, 8, 10 and 15) exceeded on four occasions the Ontario and/or Minnesota standard. The particulate matter contained high concentration of Calcium, Total Carbon, Sodium, and Sulfate Ion which may lead to the conclusion that the source is the recovery boiler for the black liquor.

TABLE 6

PERIODS, DURING WHICH HYDROGEN SULFIDE EMISSIONS FROM THE BOISE CASCADE KRAFT MILL, EXCEEDED ONTARIO AND/OR MINNESOTA STANDARDS FOR CONCENTRATION AT THE POINT OF IMPINGEMENT

Location No.	Date	Ontario Standard			Minnesota Standard					
		From	To	Duration	0.05 ppm From	0.05 ppm To	0.05 ppm Duration	0.03 ppm From	0.03 ppm To	0.03 ppm Duration
9	Nov. 8/74	09:35	11:34	119	09:35	11:29	114	09:35	11:33	118
10	Nov. 12/74	16:30	18:46	136	16:30	18:34	124	16:30	18:40	130
10	Nov. 12/74	18:49	19:59	70	18:50	19:59	69	18:50	19:59	69
11	Nov. 12/74	20:10	21:39	89	20:10	21:39	89	20:10	21:39	89
12	Nov. 13/74	09:40	14:26	286	09:40	14:26	286	09:40	14:26	286
13	Nov. 13/74	14:43	16:48	125	14:43	16:48	125	14:43	16:48	125
14	Nov. 13/74	17:26	18:05	39	17:26	18:05	39	17:26	18:95	39
15	Nov. 13/74	18:19	19:22	63	18:19	19:22	63	18:19	19:22	63
16	Nov. 14/74	11:35	17:10	335	11:35	17:10	335	11:35	17:10	335
19	Nov. 16/74	09:46	10:30	54	-	-	-	09:46	10:21	35
25	Nov. 19/74	09:01	12:16	195	09:01	12:16	195	09:01	12:16	195
26	Nov. 19/74	14:46	19:07	261	14:46	17:40	174	14:46	19:03	257
26	Nov. 19/74	18:56	20:02	66	17:41	18:55	74	19:03	19:55	52

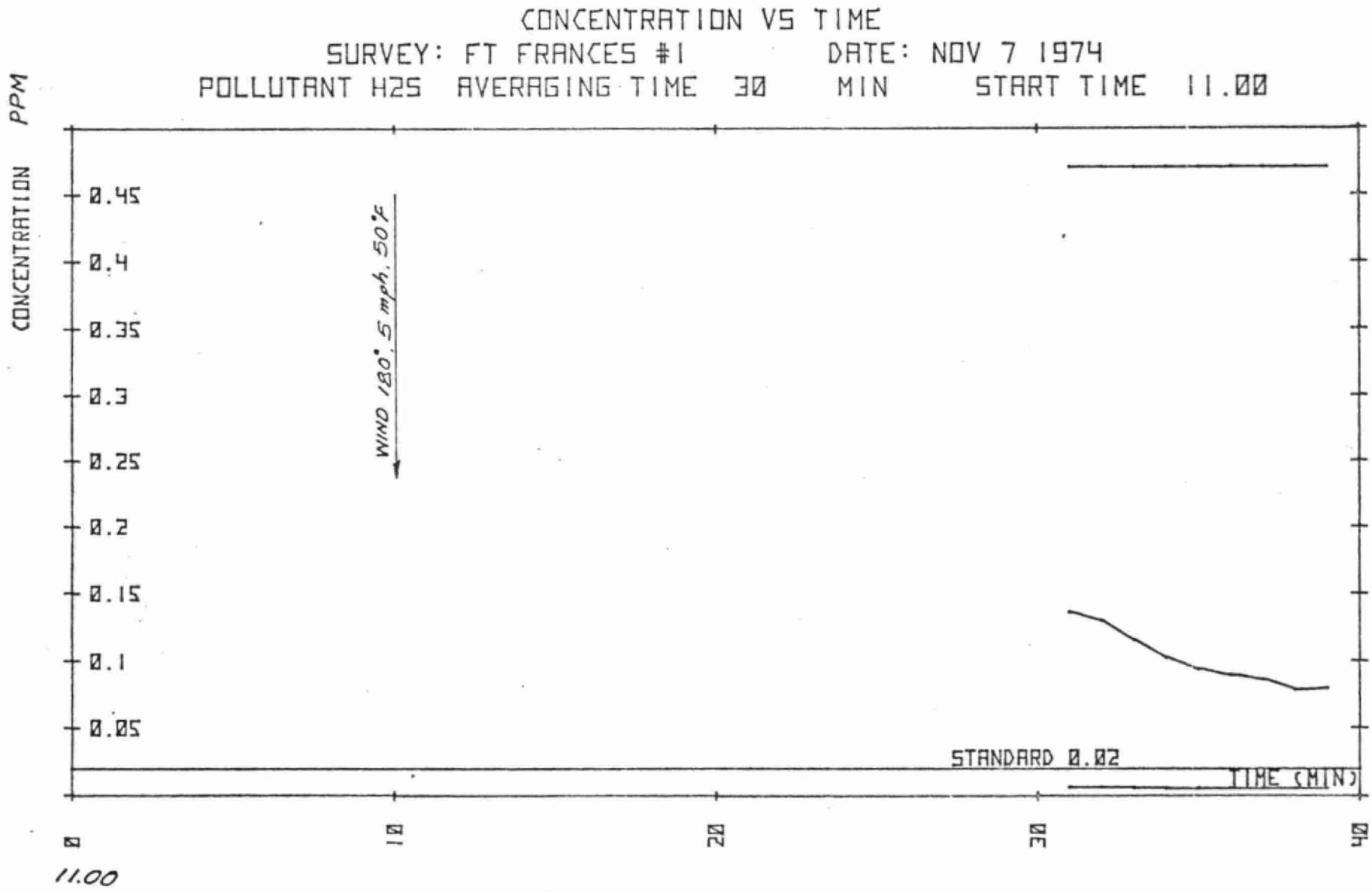

CONCENTRATION VS TIME
SURVEY: FT FRANCES #1
DATE: NOV 7 1974
POLLUTANT H2S AVERAGING TIME 30 MIN
START TIME 11.00
CONCENTRATION PPM
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
WIND 180°, 5 mph, 50°F
STANDARD 0.02
TIME (MIN)
0
10
20
30
40
11.00

FIGURE 1

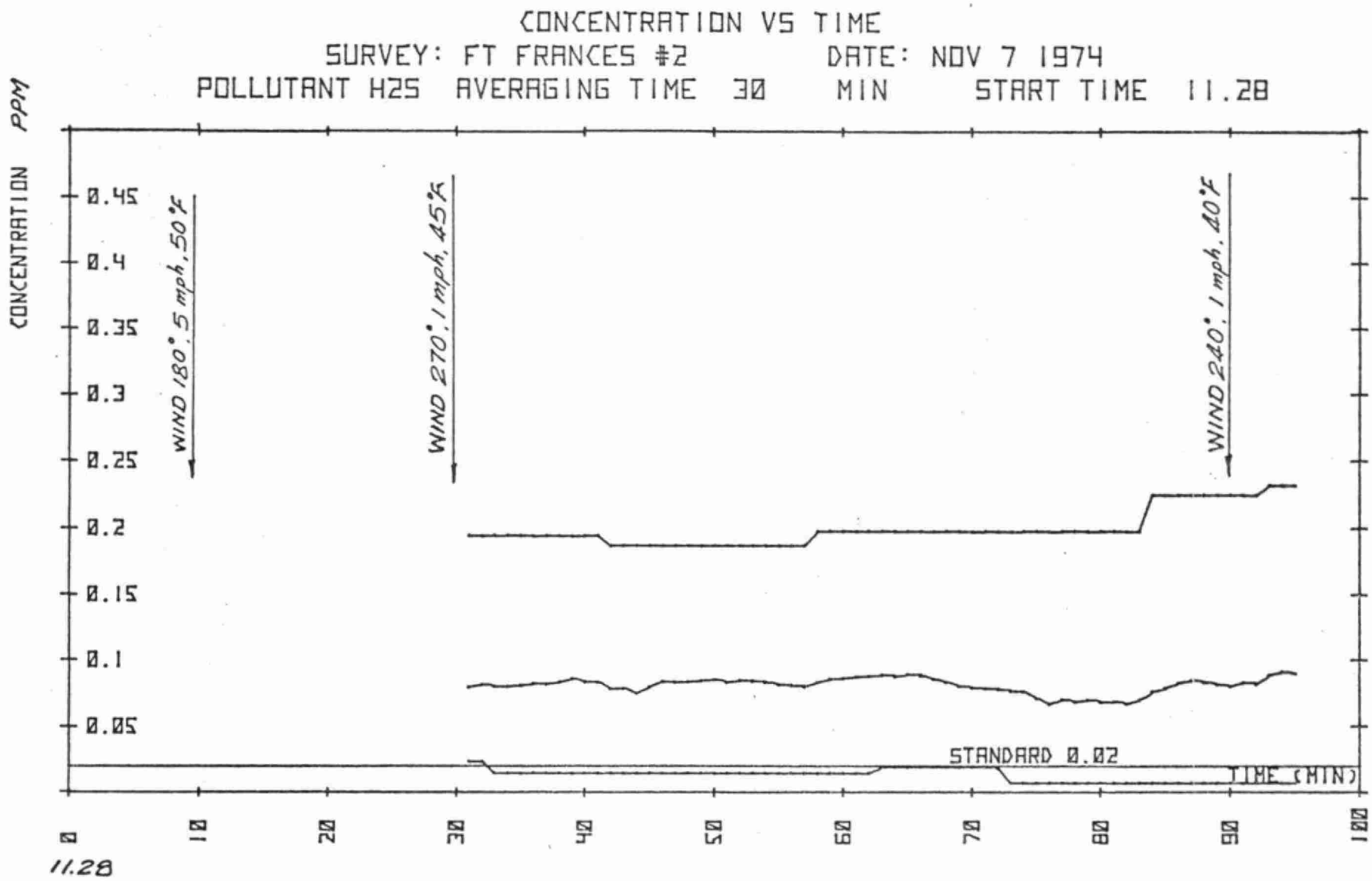

CONCENTRATION VS TIME
SURVEY: FT FRANCES #2
DATE: NOV 7 1974
POLLUTANT H2S AVERAGING TIME 30 MIN START TIME 11.28
CONCENTRATION PPM
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
WIND 180°, 5 mph, 50°F
WIND 270°, 1 mph, 45°F
WIND 240°, 1 mph, 40°F
STANDARD 0.02
TIME (MIN)
0
10
20
30
40
50
60
70
80
90
100
11.28

FIGURE 2

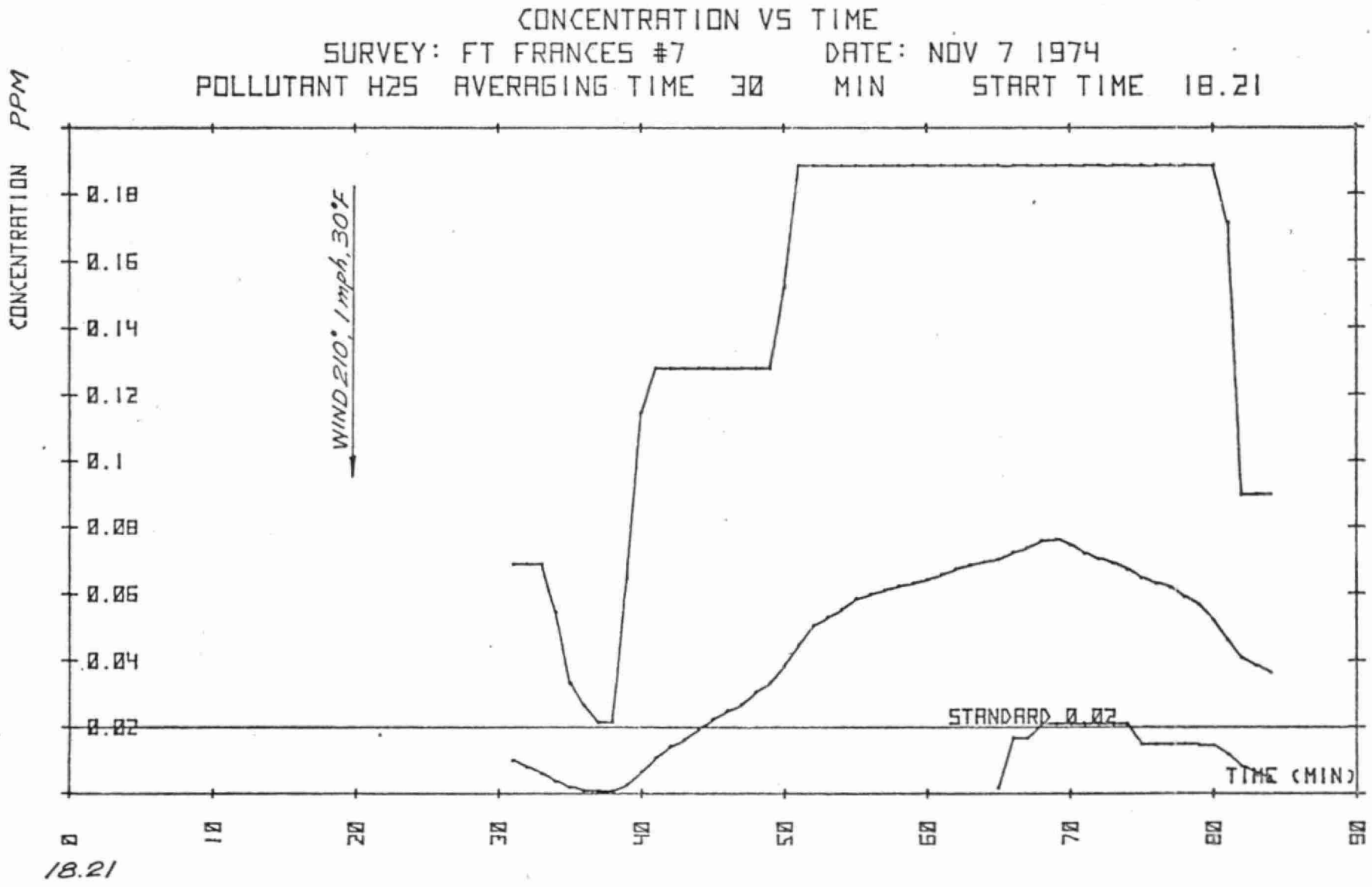

CONCENTRATION VS TIME
SURVEY: FT FRANCES #7
DATE: NOV 7 1974
POLLUTANT H2S AVERAGING TIME 30 MIN
START TIME 18.21
CONCENTRATION PPM
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
WIND 210°, 1 mph, 30°F
STANDARD 0.02
TIME (MIN)
0
10
20
30
40
50
60
70
80
90
18.21

FIGURE 7

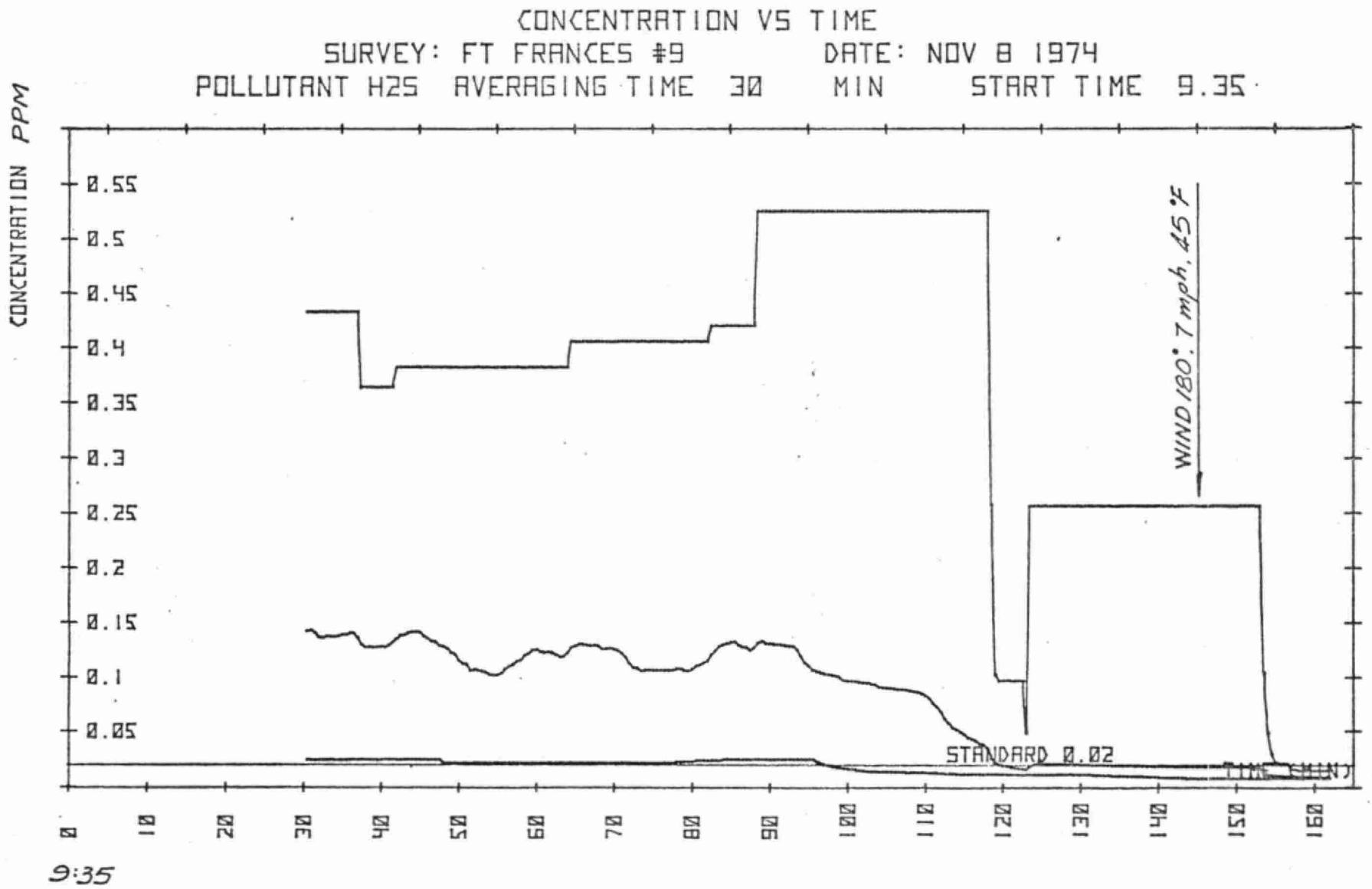

CONCENTRATION VS TIME
SURVEY: FT FRANCES #9
DATE: NOV 8 1974
POLLUTANT H2S AVERAGING TIME 30 MIN
START TIME 9.35
CONCENTRATION PPM
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
WIND 180°, 7 mph, 45°F
STANDARD 0.02
TIME (MIN)
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
9:35

FIGURE 8

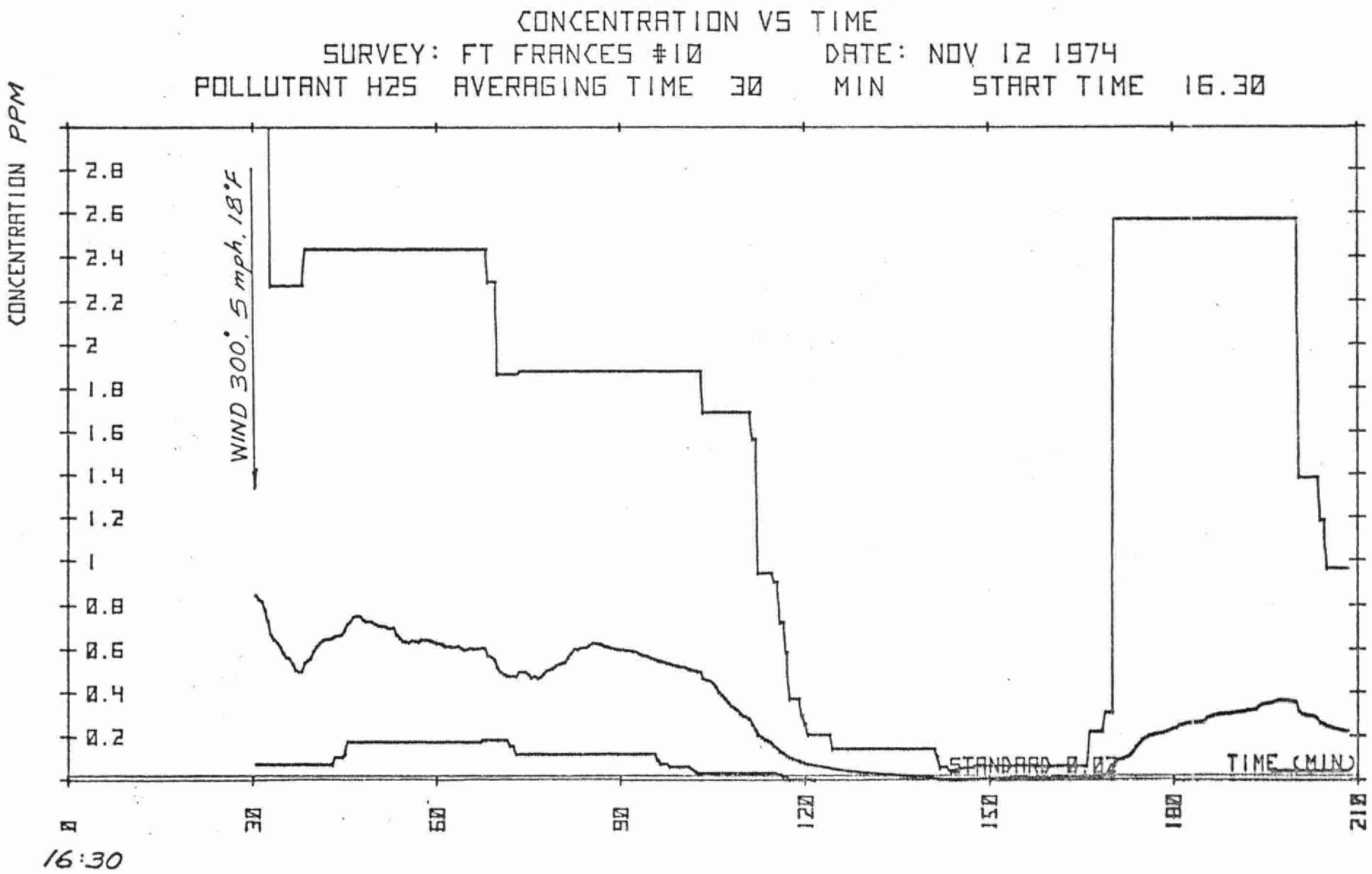

CONCENTRATION VS TIME
SURVEY: FT FRANCES #10
DATE: NOV 12 1974
POLLUTANT H2S AVERAGING TIME 30 MIN
START TIME 16.30
CONCENTRATION PPM
WIND 300°, 5 mph, 18°F
STANDARD 0.02
TIME (MIN)
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
30
60
90
120
150
180
210
16:30

FIGURE 9

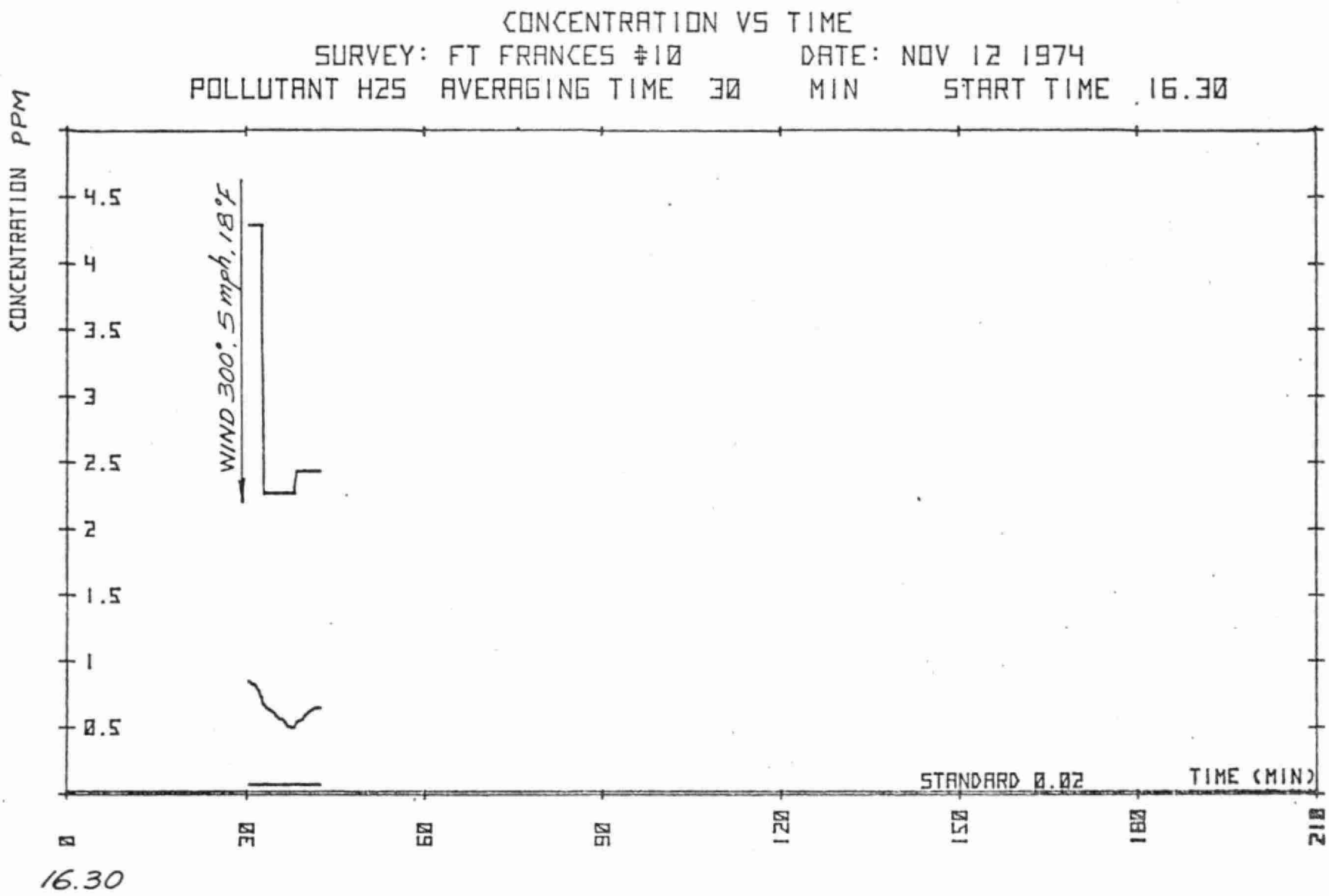

CONCENTRATION VS TIME
SURVEY: FT FRANCES #10
DATE: NOV 12 1974
POLLUTANT H2S AVERAGING TIME 30 MIN
START TIME 16.30
CONCENTRATION PPM
4.5
4
3.5
3
2.5
2
1.5
1
0.5
WIND 300°, 5 mph, 18°C
STANDARD 0.02
TIME (MIN)
0
30
60
90
120
150
180
210
16.30

FIGURE 10

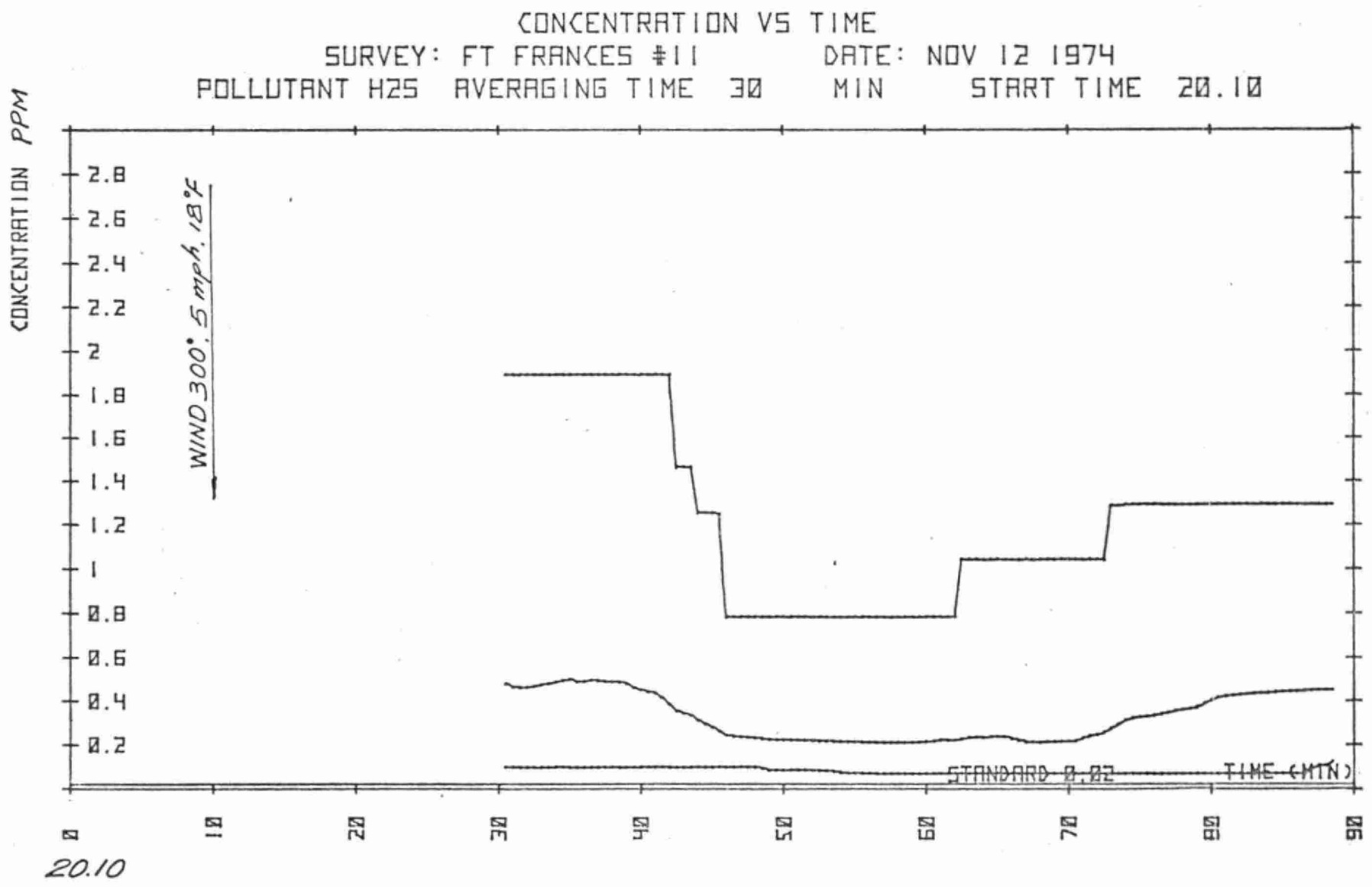
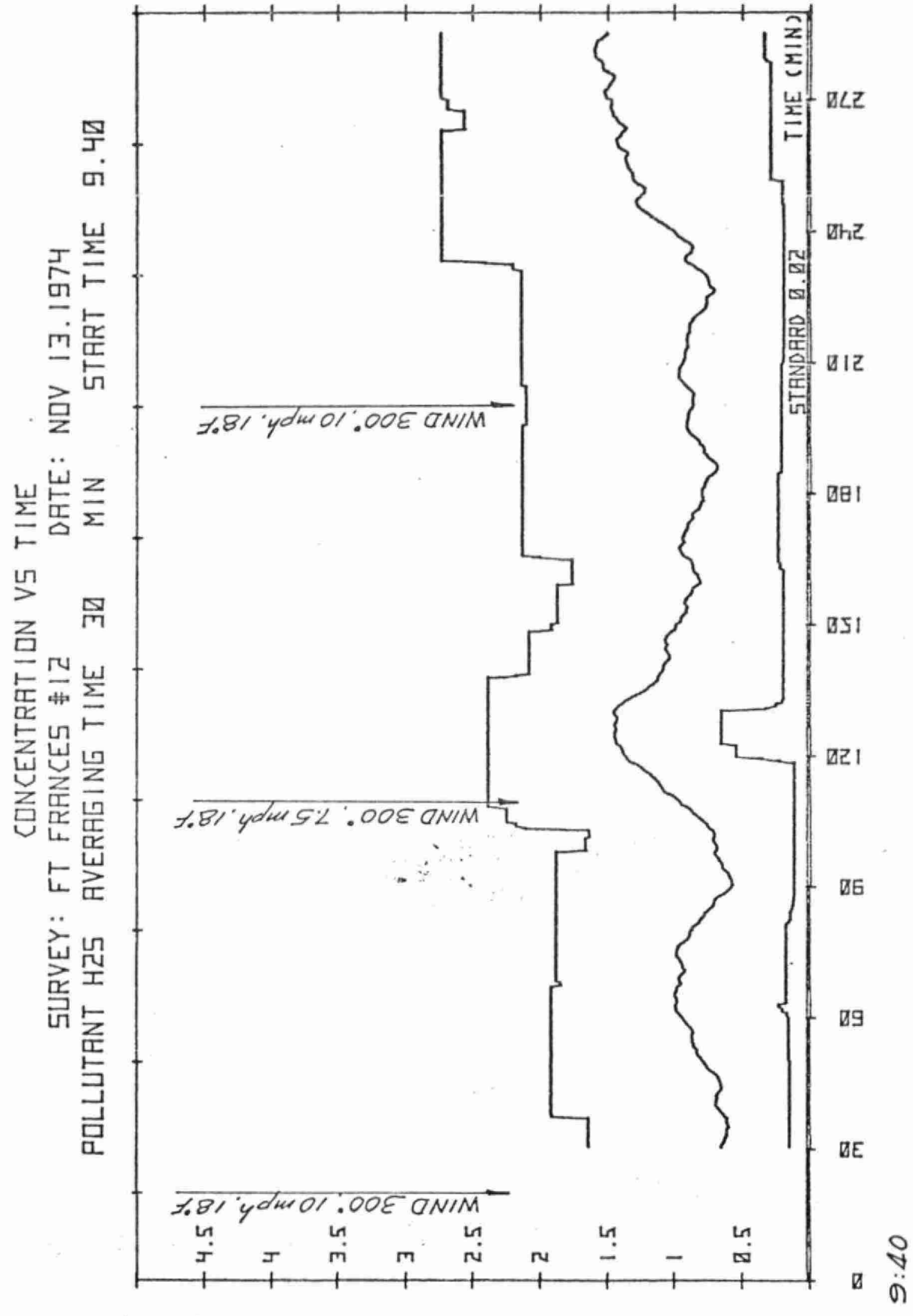

CONCENTRATION VS TIME
SURVEY: FT FRANCES #11
DATE: NOV 12 1974
POLLUTANT H2S AVERAGING TIME 30 MIN
START TIME 20.10
CONCENTRATION PPM
WIND 300°, 5 mph, 18°C
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
STANDARD 0.02
TIME (MIN)
0
10
20
30
40
50
60
70
80
90
20.10

FIGURE 11

FIGURE 12


CONCENTRATION VS TIME
SURVEY: FT FRANCES #12
POLLUTANT H2S AVERAGING TIME 30 MIN
DATE: NOV 13.1974
START TIME 9.40
WIND 300°. 10 mph. 18°F
WIND 300°. 15 mph. 18°F
WIND 300°. 10 mph. 18°F
STANDARD 0.02
TIME (MIN)
CONCENTRATION PPM
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
30
60
90
120
150
180
210
240
270
9:40

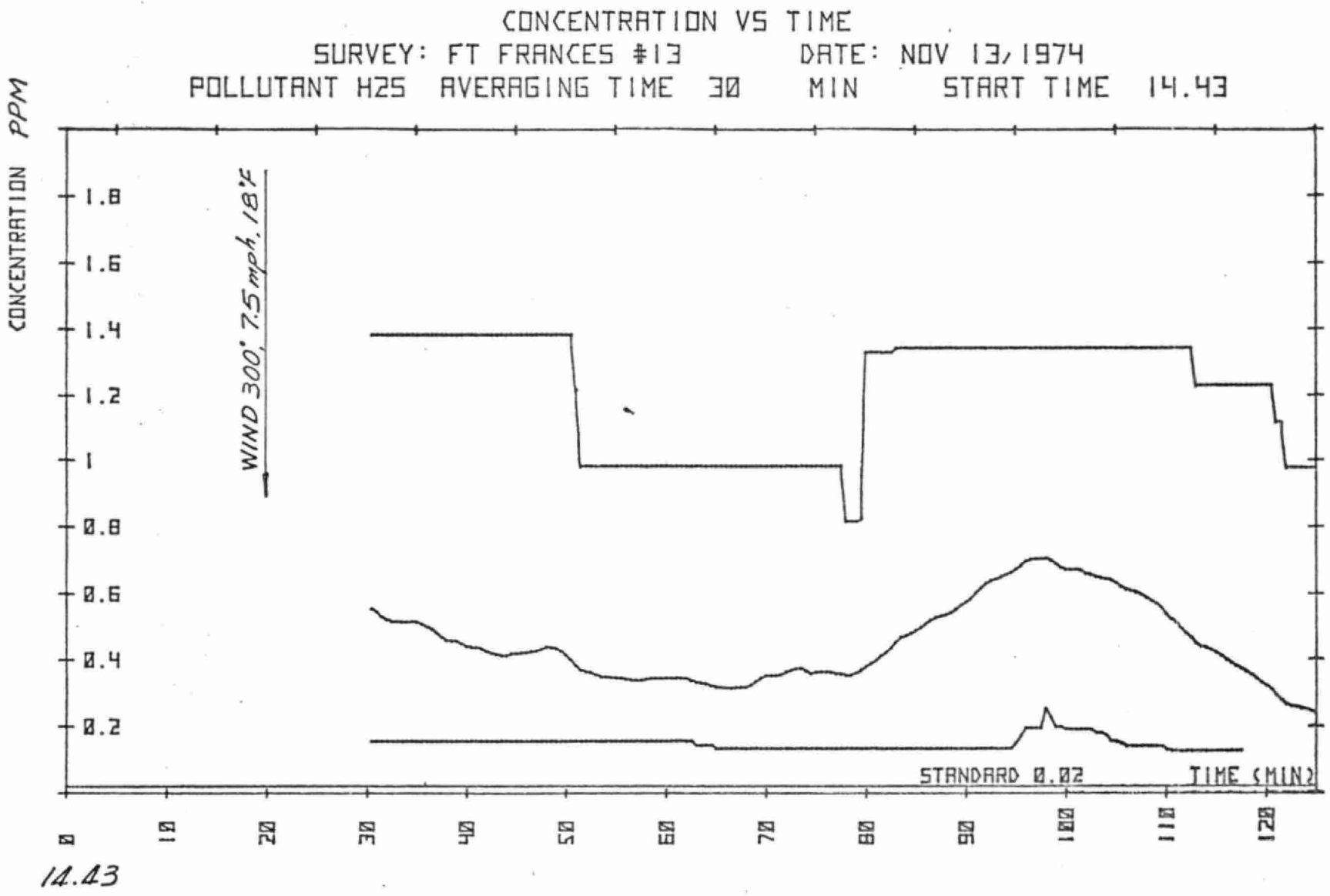

CONCENTRATION VS TIME
SURVEY: FT FRANCES #13 DATE: NOV 13, 1974
POLLUTANT H2S AVERAGING TIME 30 MIN START TIME 14.43
CONCENTRATION PPM
WIND 300°, 7.5 mph, 18°C
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
STANDARD 0.02
TIME (MIN)
0
10
20
30
40
50
60
70
80
90
100
110
120
14.43

FIGURE 13

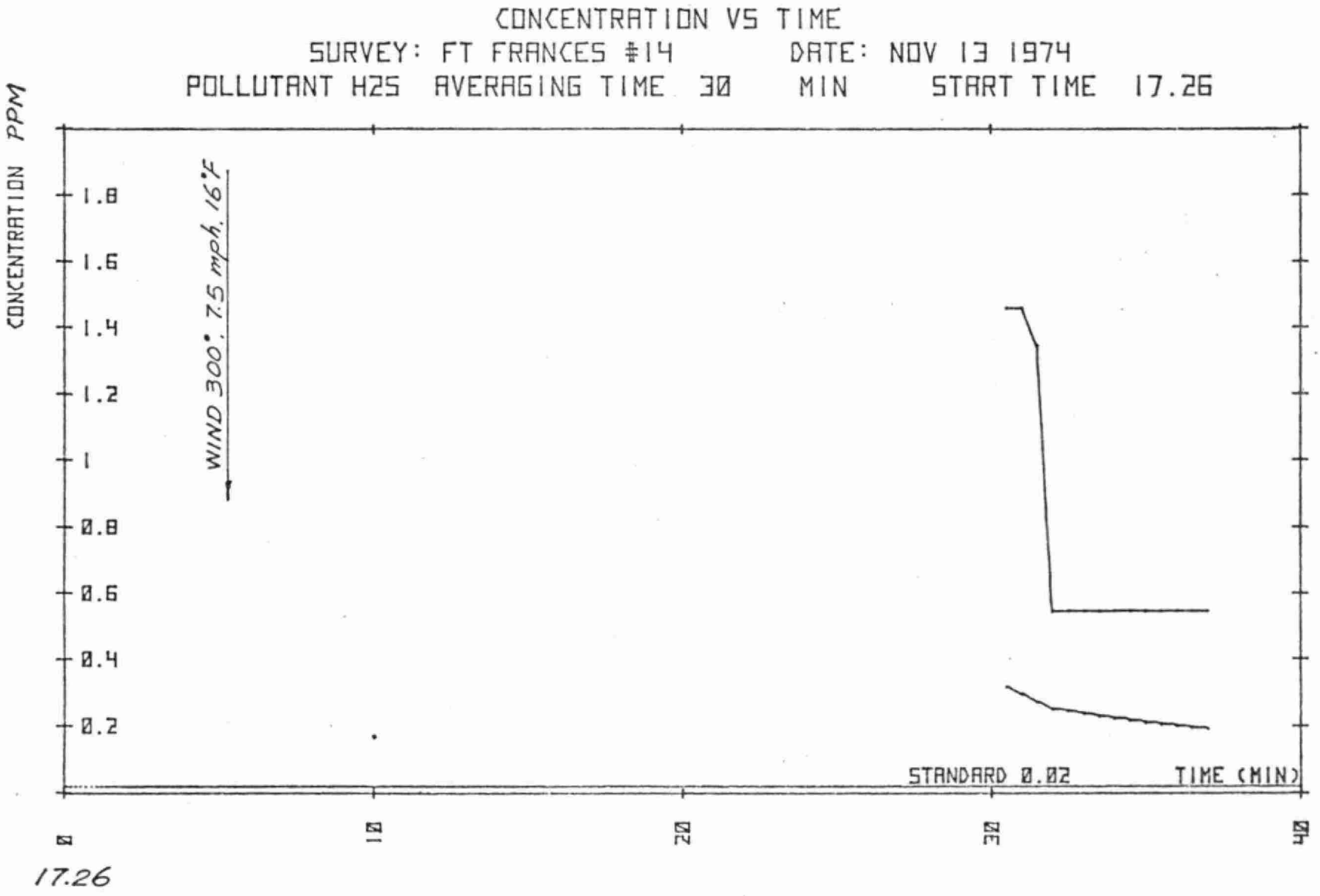

CONCENTRATION VS TIME
SURVEY: FT FRANCES #14 DATE: NOV 13 1974
POLLUTANT H2S AVERAGING TIME 30 MIN START TIME 17.26
CONCENTRATION PPM
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
WIND 300°, 7.5 mph, 16°F
STANDARD 0.02
TIME (MIN)
0
10
20
30
40
17.26

FIGURE 14

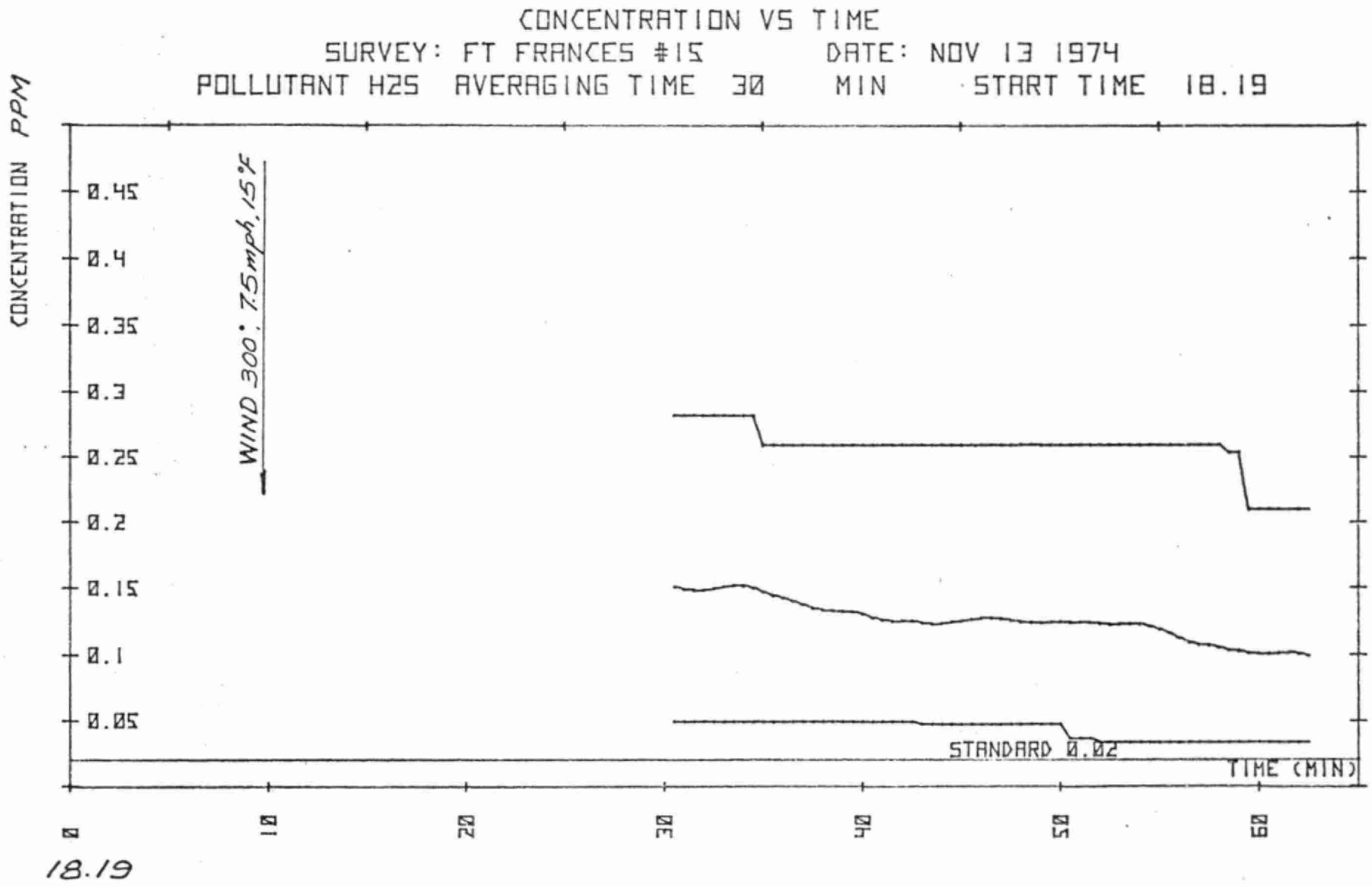

CONCENTRATION VS TIME
SURVEY: FT FRANCES #15
DATE: NOV 13 1974
POLLUTANT H2S AVERAGING TIME 30 MIN
START TIME 18.19
CONCENTRATION PPM
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
WIND 300°, 7.5mph, 15°c
STANDARD 0.02
TIME (MIN)
0
10
20
30
40
50
60
18.19

FIGURE 15

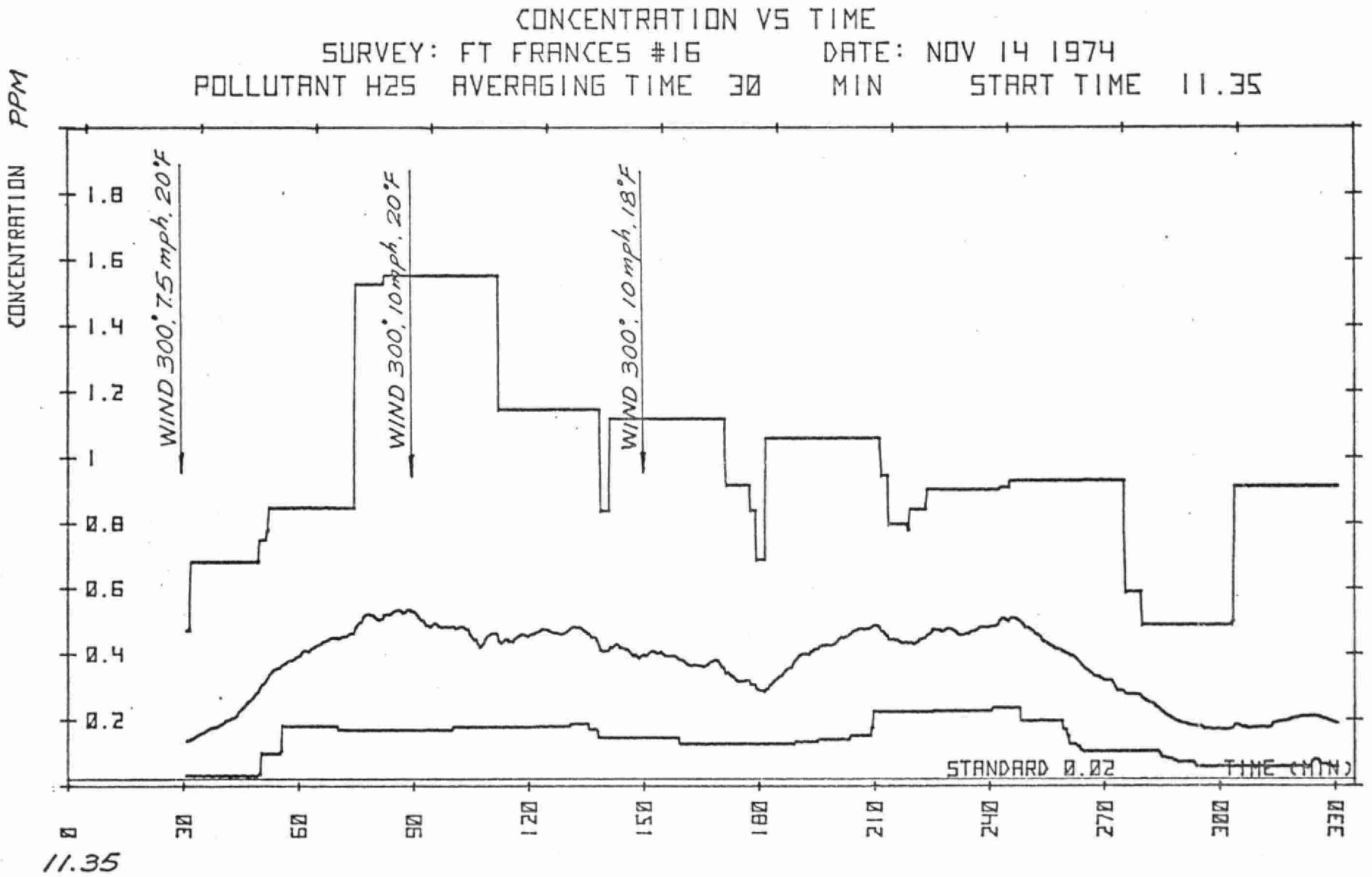

CONCENTRATION VS TIME
SURVEY: FT FRANCES #16
DATE: NOV 14 1974
POLLUTANT H2S AVERAGING TIME 30 MIN
START TIME 11.35
CONCENTRATION PPM
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
WIND 300°, 7.5 mph, 20°F
WIND 300°, 10 mph, 20°F
WIND 300°, 10 mph, 18°F
STANDARD 0.02
TIME (MIN)
0
30
60
90
120
150
180
210
240
270
300
330
11.35

FIGURE 16

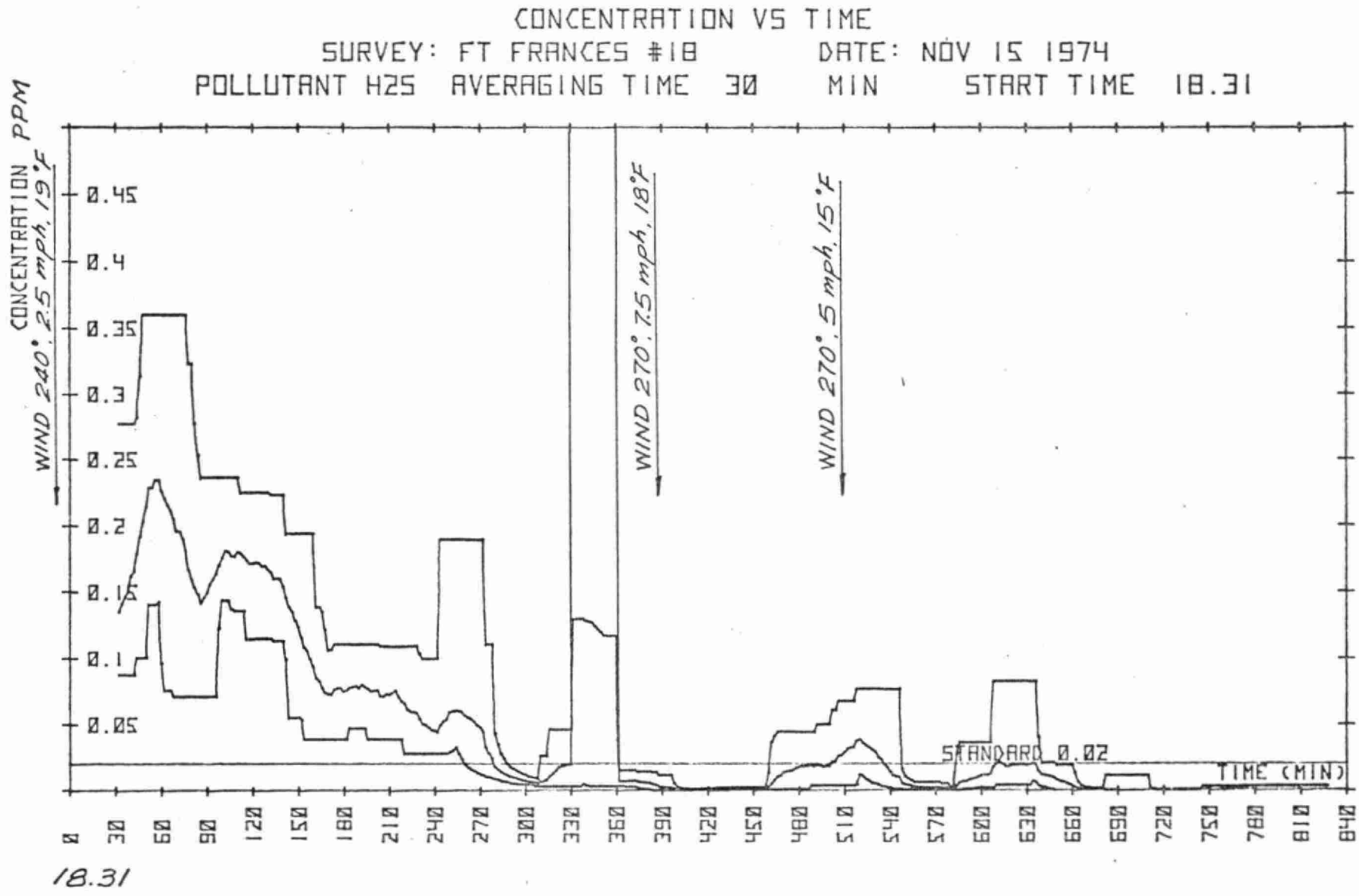

CONCENTRATION VS TIME
SURVEY: FT FRANCES #18
DATE: NOV 15 1974
POLLUTANT H2S AVERAGING TIME 30 MIN
START TIME 18.31
CONCENTRATION PPM
WIND 240°, 2.5 mph, 19°F
WIND 270°, 7.5 mph, 18°F
WIND 270°, 5 mph, 15°F
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
STANDARD 0.02
TIME (MIN)
0
30
60
90
120
150
180
210
240
270
300
330
360
390
420
450
480
510
540
570
600
630
660
690
720
750
780
810
840
18.31

FIGURE 17

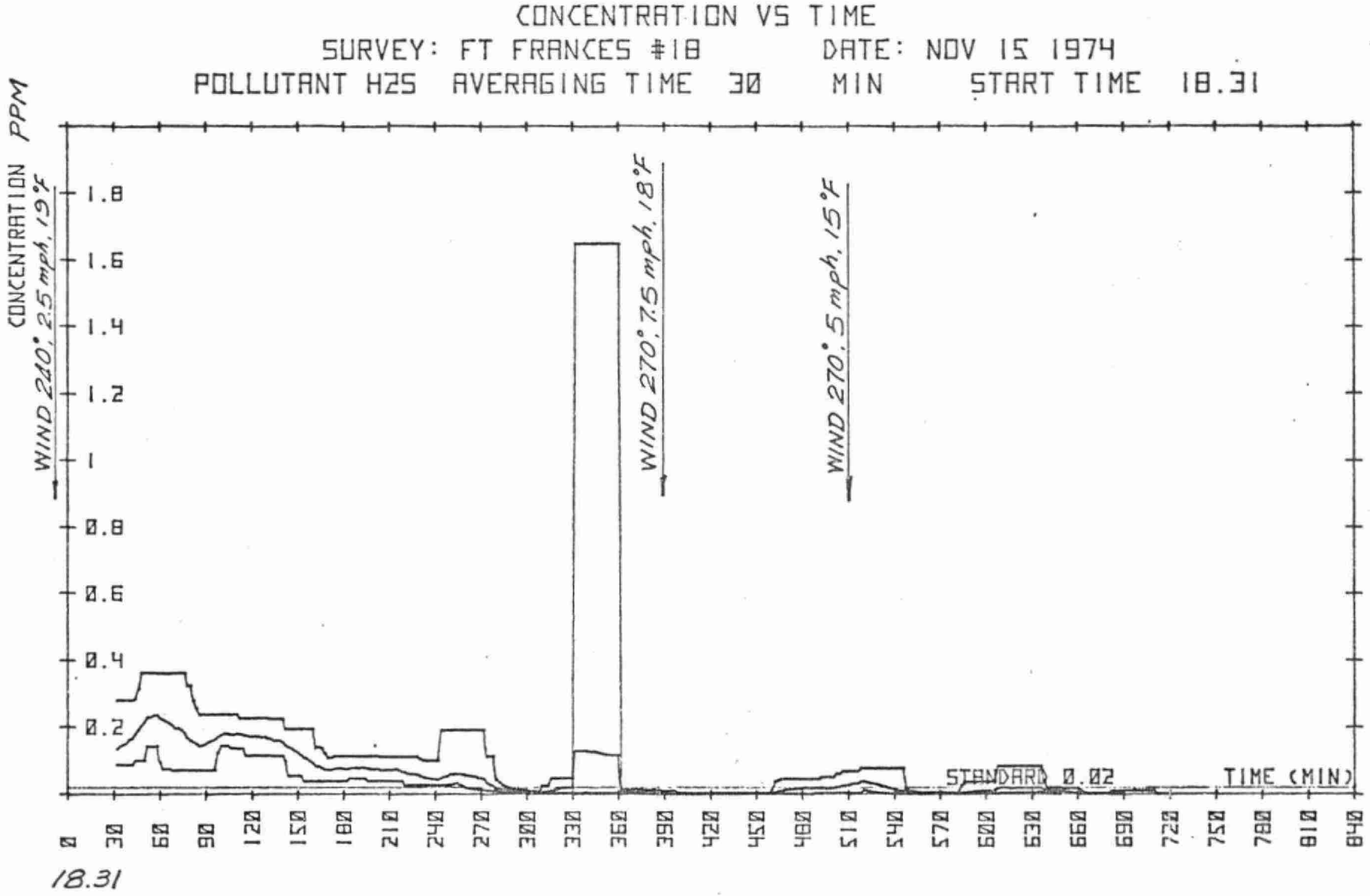

CONCENTRATION VS TIME
SURVEY: FT FRANCES #18
DATE: NOV 15 1974
POLLUTANT H2S AVERAGING TIME 30 MIN
START TIME 18.31
CONCENTRATION PPM
WIND 210°, 2.5 mph, 19°F
WIND 270°, 7.5 mph, 18°F
WIND 270°, 5 mph, 15°F
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
STANDARD 0.02
TIME (MIN)
0 30 60 90 120 150 180 210 240 270 300 330 360 390 420 450 480 510 540 570 600 630 660 690 720 750 780 810 840
18.31

FIGURE 18

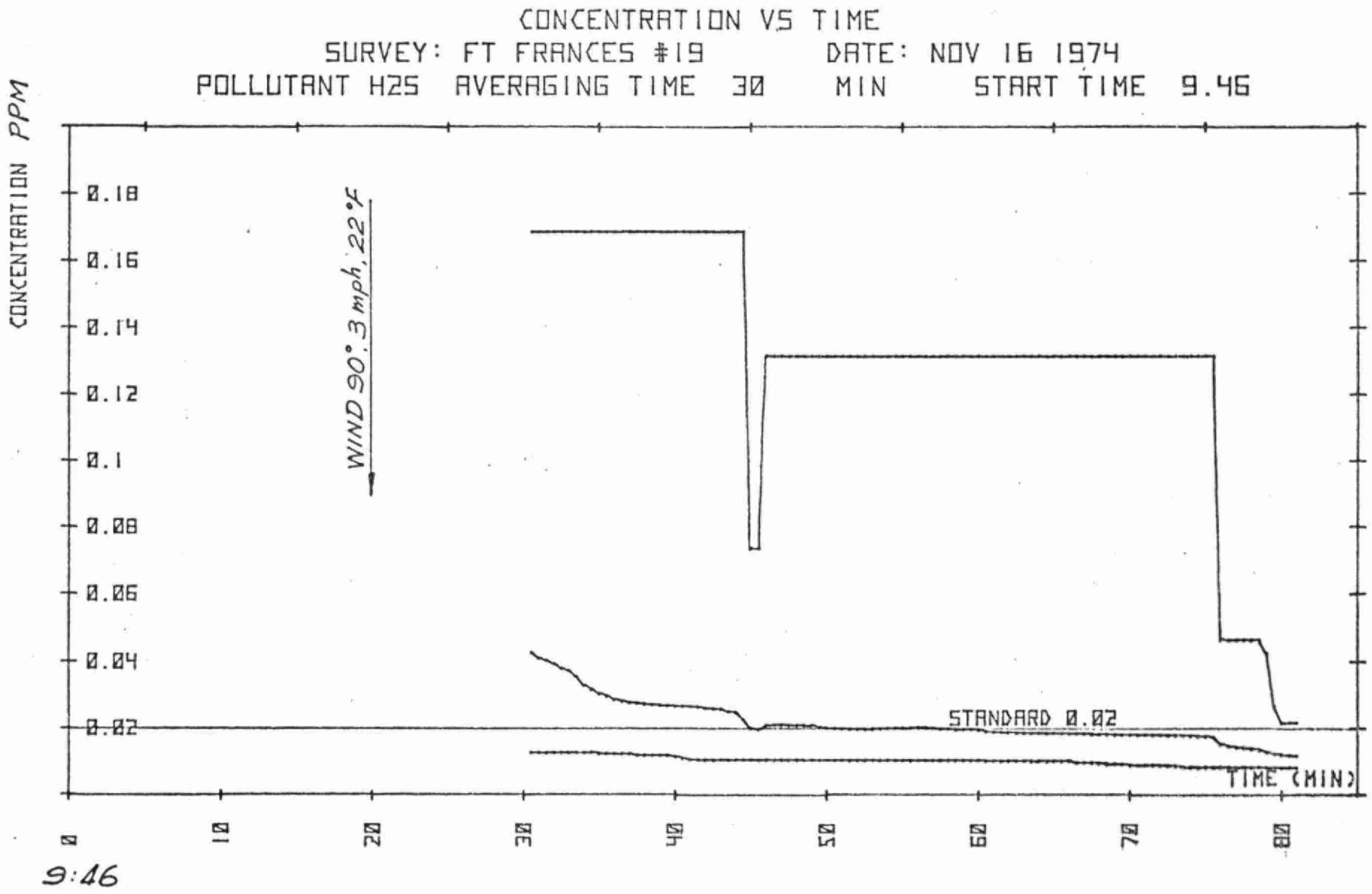

CONCENTRATION VS TIME
SURVEY: FT FRANCES #19
DATE: NOV 16 1974
POLLUTANT H2S AVERAGING TIME 30 MIN
START TIME 9.46
CONCENTRATION PPM
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
WIND 90° 3 mph, 22°F
STANDARD 0.02
TIME (MIN)
0
10
20
30
40
50
60
70
80
9:46

FIGURE 19

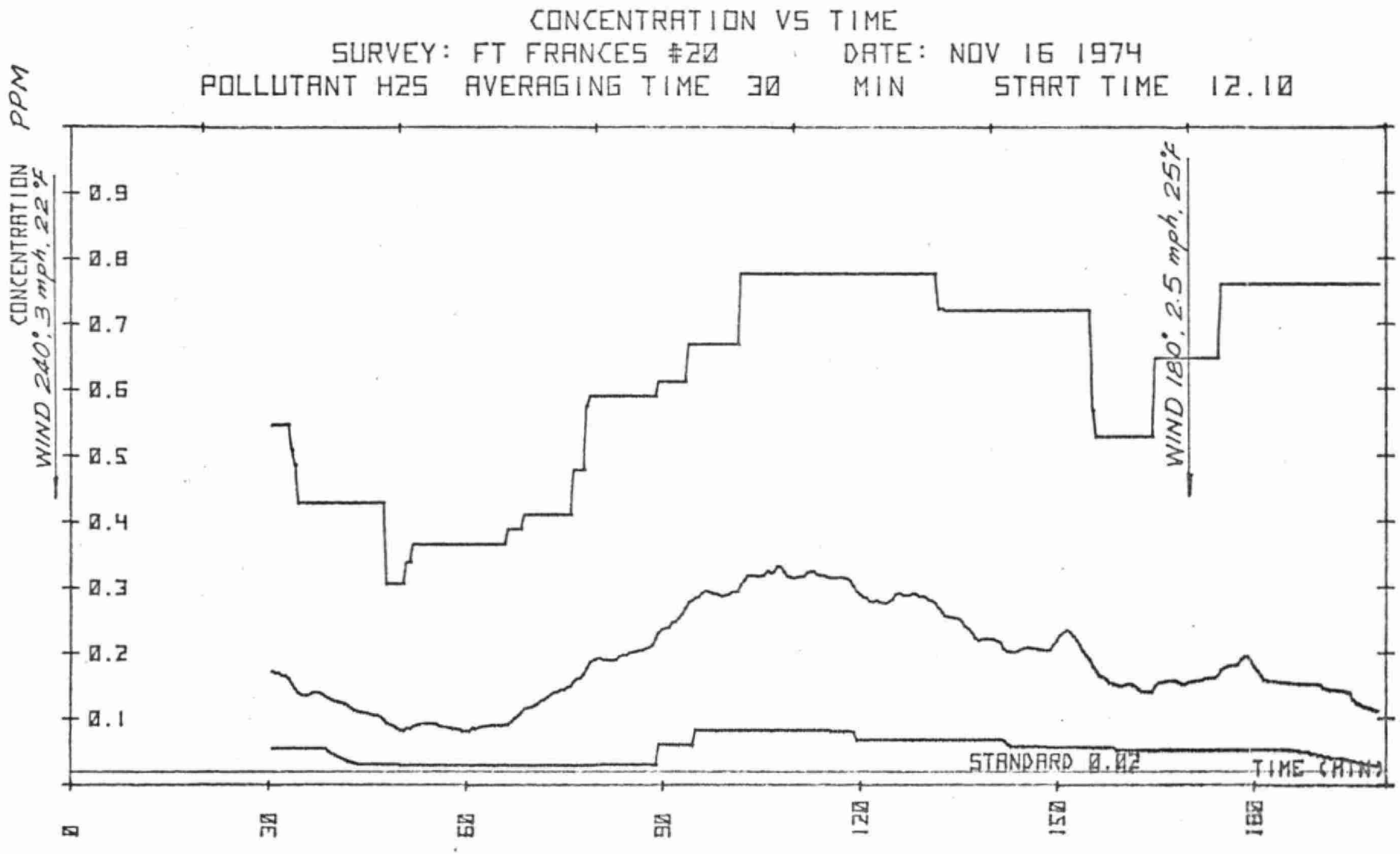

CONCENTRATION VS TIME
SURVEY: FT FRANCES #20 DATE: NOV 16 1974
POLLUTANT H2S AVERAGING TIME 30 MIN START TIME 12.10
CONCENTRATION PPM
WIND 240°, 3 mph, 22°C
WIND 180°, 2.5 mph, 25°C
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
STANDARD 0.02
TIME (MIN)
0
30
60
90
120
150
180
12:10

FIGURE 20

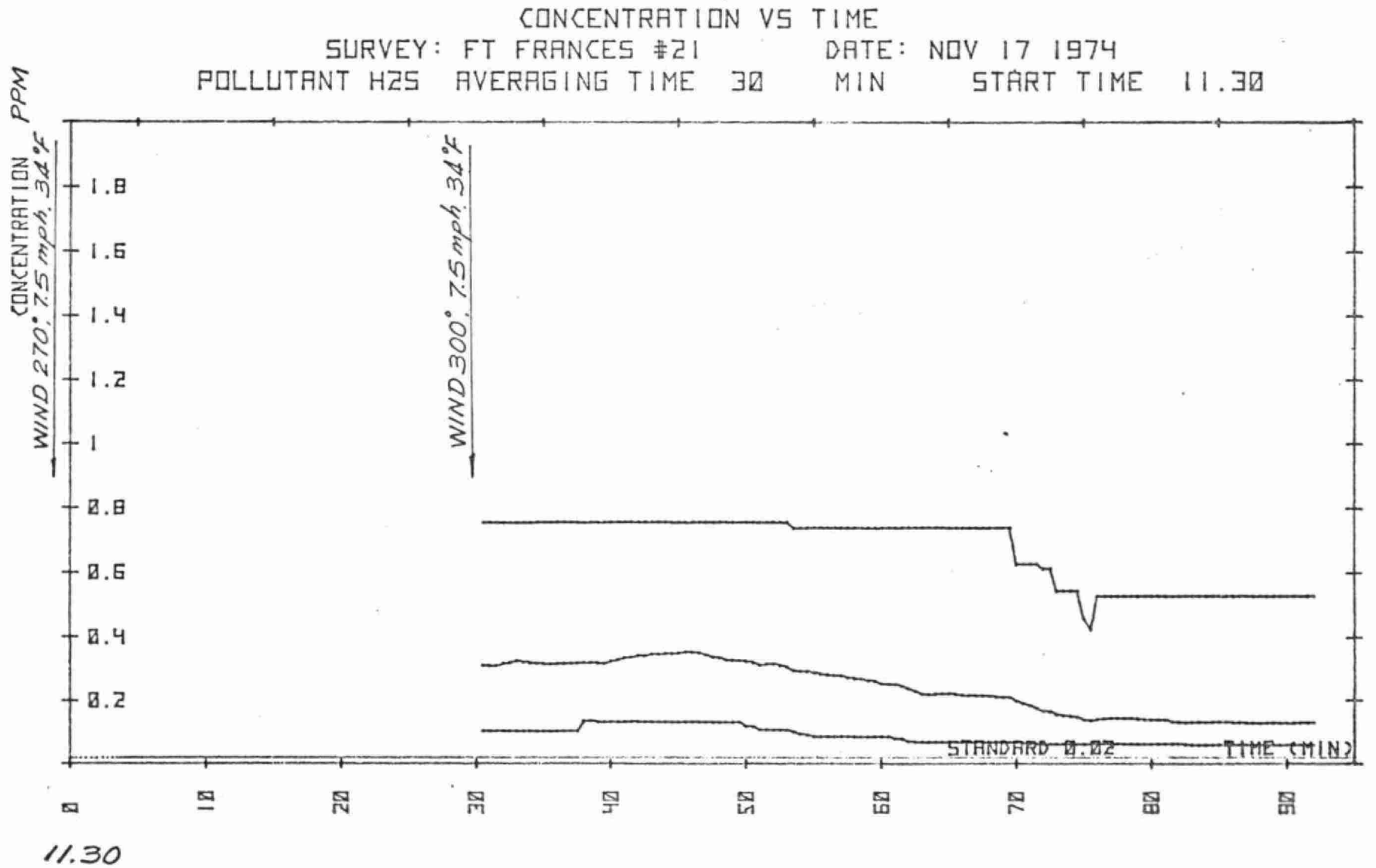

CONCENTRATION VS TIME
SURVEY: FT FRANCES #21
DATE: NOV 17 1974
POLLUTANT H2S AVERAGING TIME 30 MIN
START TIME 11.30
CONCENTRATION PPM
WIND 270°, 7.5 mph, 34°F
WIND 300°, 7.5 mph, 34°F
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
STANDARD 0.02
TIME (MIN)
0
10
20
30
40
50
60
70
80
90
11.30

FIGURE 21

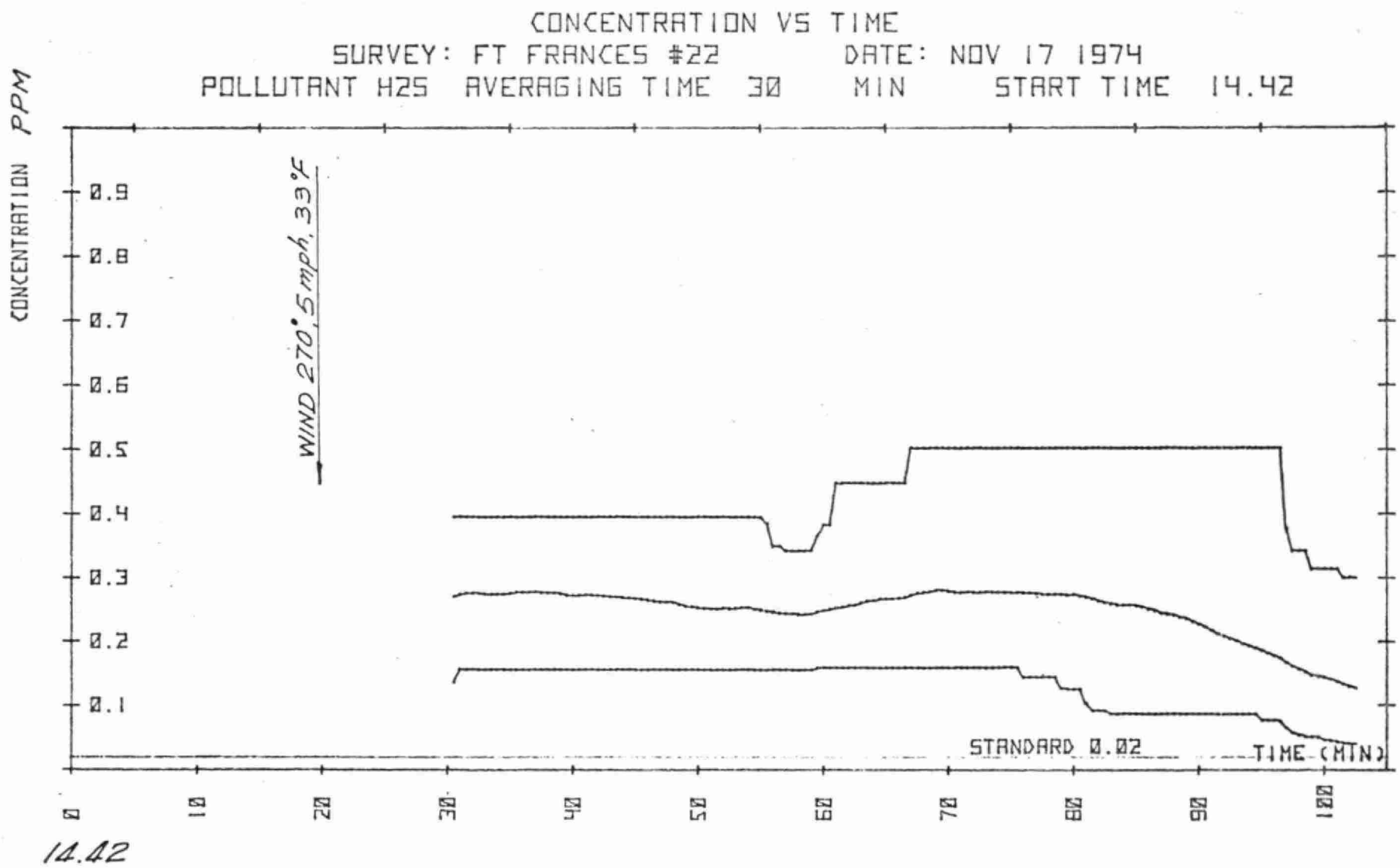

CONCENTRATION VS TIME
SURVEY: FT FRANCES #22
DATE: NOV 17 1974
POLLUTANT H2S AVERAGING TIME 30 MIN
START TIME 14.42
CONCENTRATION PPM
WIND 270°, 5 mph, 33°F
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
STANDARD 0.02
TIME (MIN)
0
10
20
30
40
50
60
70
80
90
100
14.42

FIGURE 22

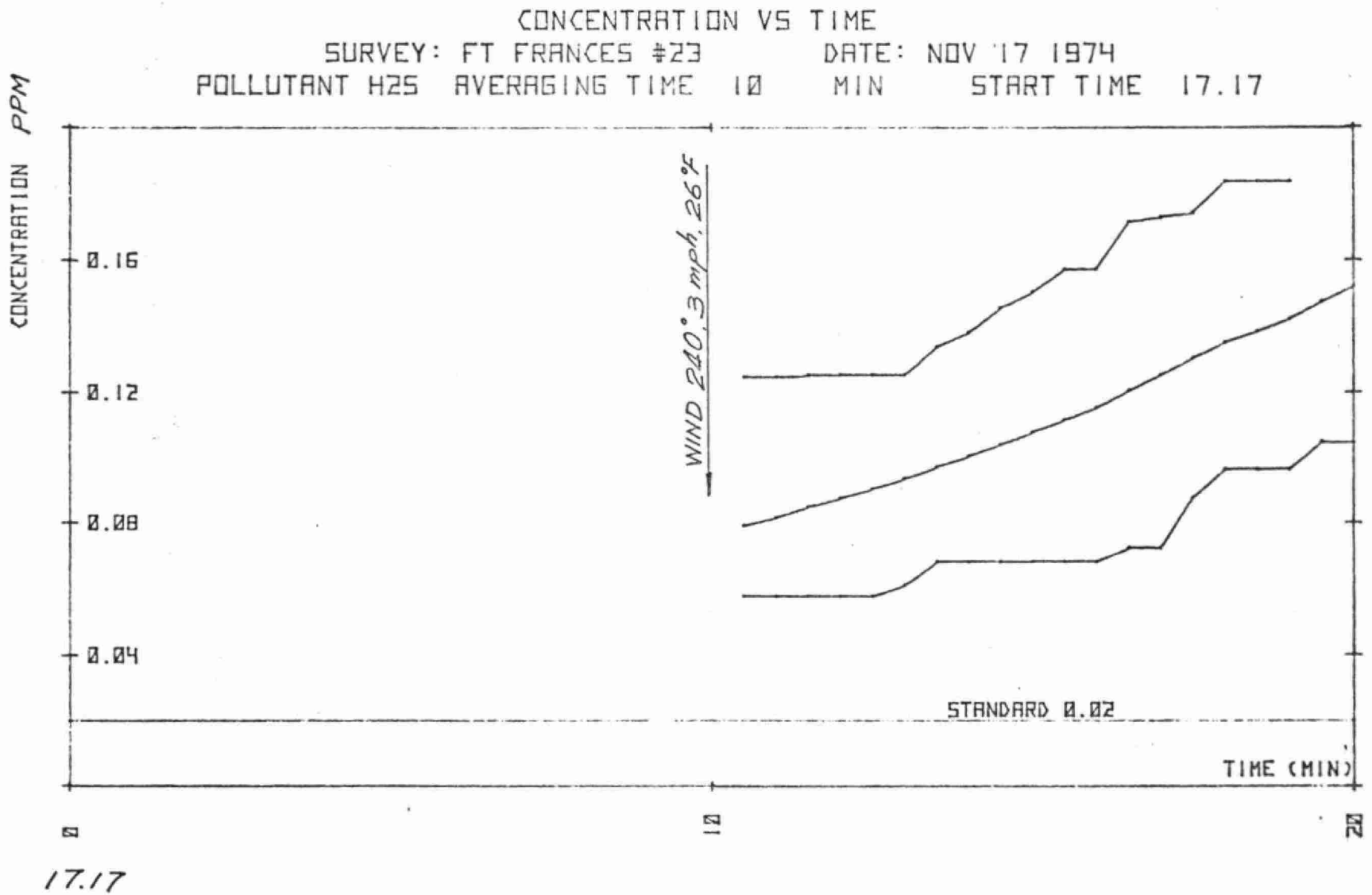

CONCENTRATION VS TIME
SURVEY: FT FRANCES #23
DATE: NOV 17 1974
POLLUTANT H2S AVERAGING TIME 10 MIN
START TIME 17.17
CONCENTRATION PPM
0.16
0.12
0.08
0.04
WIND 240°, 3 mph, 26°F
STANDARD 0.02
TIME (MIN)
0
10
20
17.17

FIGURE 23

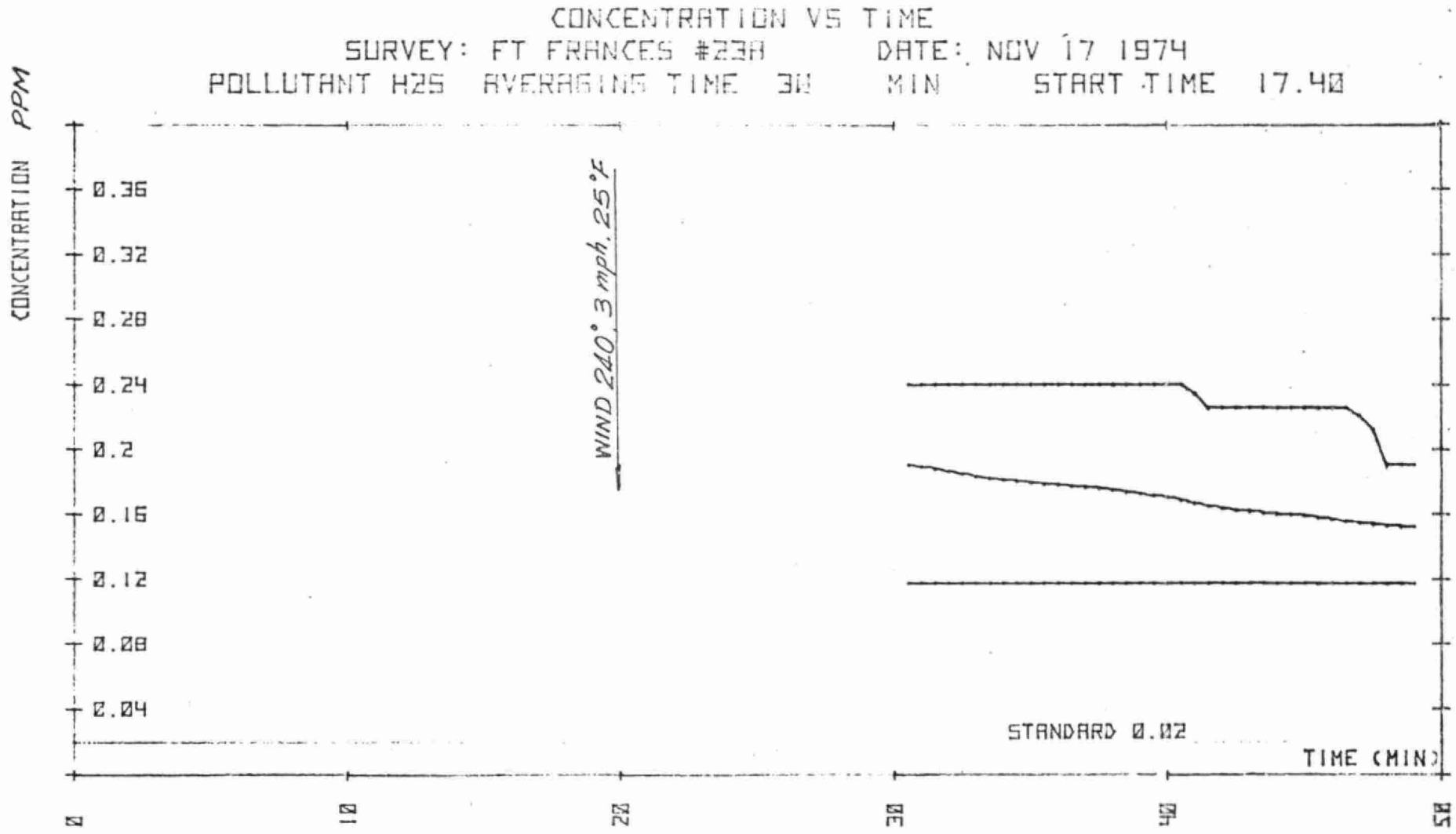

CONCENTRATION VS TIME
SURVEY: FT FRANCES #23A
DATE: NOV 17 1974
POLLUTANT H2S AVERAGING TIME 30 MIN
START TIME 17.40
CONCENTRATION PPM
0.36
0.32
0.28
0.24
0.2
0.16
0.12
0.08
0.04
WIND 240° 3 mph, 25°C
STANDARD 0.02
TIME (MIN)
0
10
20
30
40
50
17.40

FIGURE 24

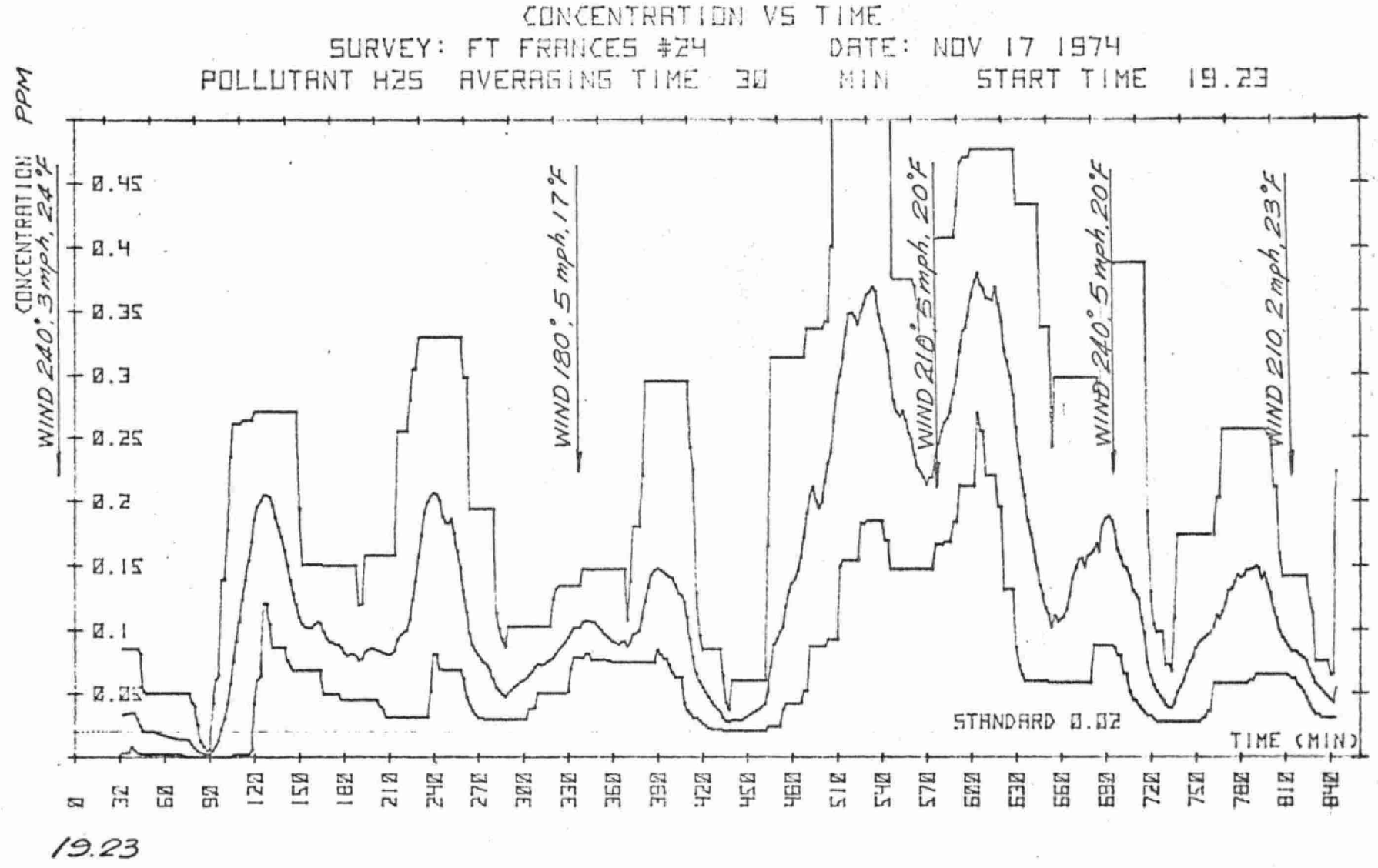

CONCENTRATION VS TIME
SURVEY: FT FRANCES #24
DATE: NOV 17 1974
POLLUTANT H2S AVERAGING TIME 30 MIN
START TIME 19.23
PPM
CONCENTRATION
WIND 240°, 3 mph, 24°C
WIND 180°, 5 mph, 17°C
WIND 210°, 5 mph, 20°C
WIND 240°, 5 mph, 20°C
WIND 210, 2 mph, 23°C
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
STANDARD 0.02
TIME (MIN)
0
30
60
90
120
150
180
210
240
270
300
330
360
390
420
450
480
510
540
570
600
630
660
690
720
750
780
810
840
19.23

FIGURE 25

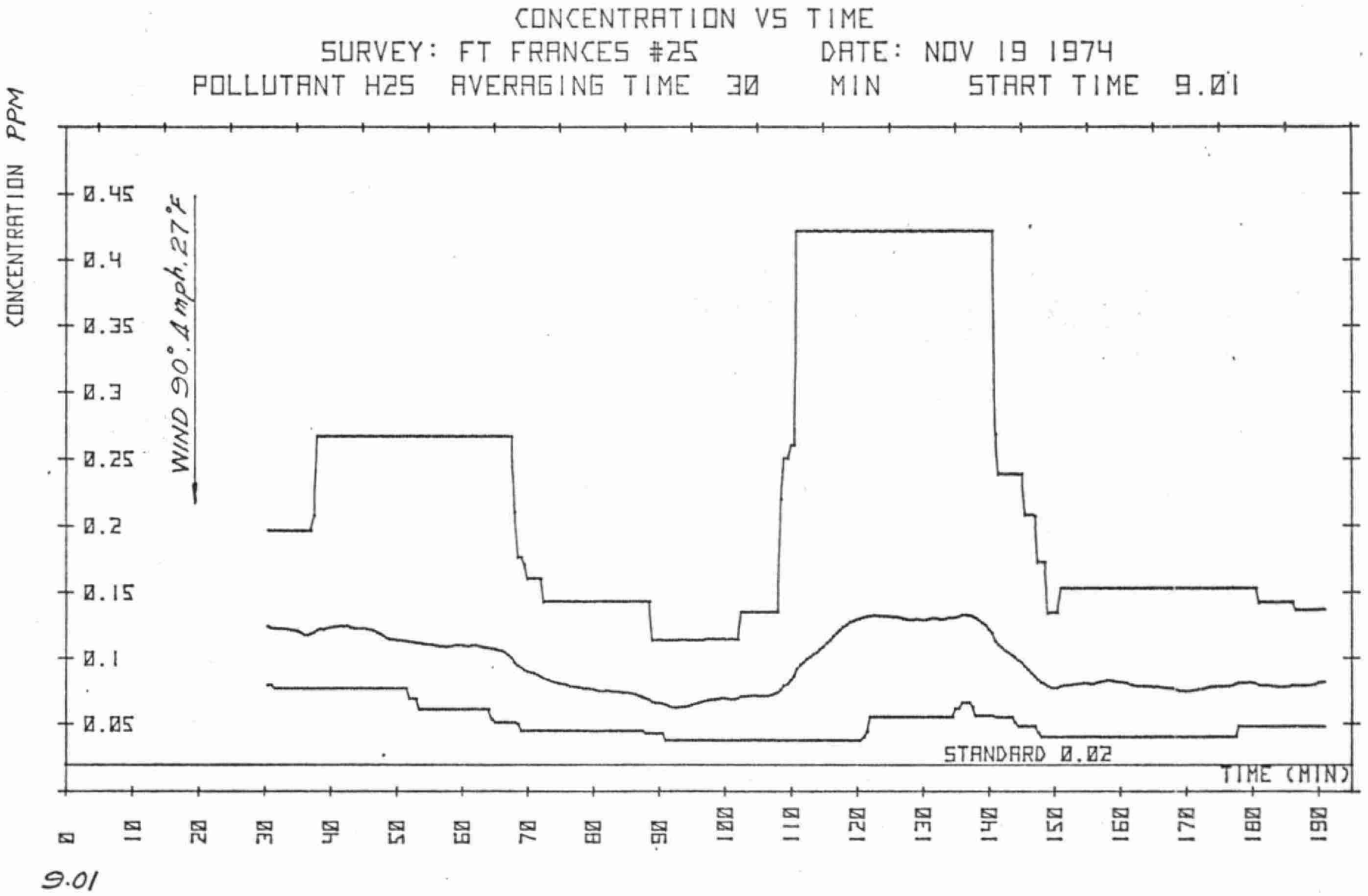
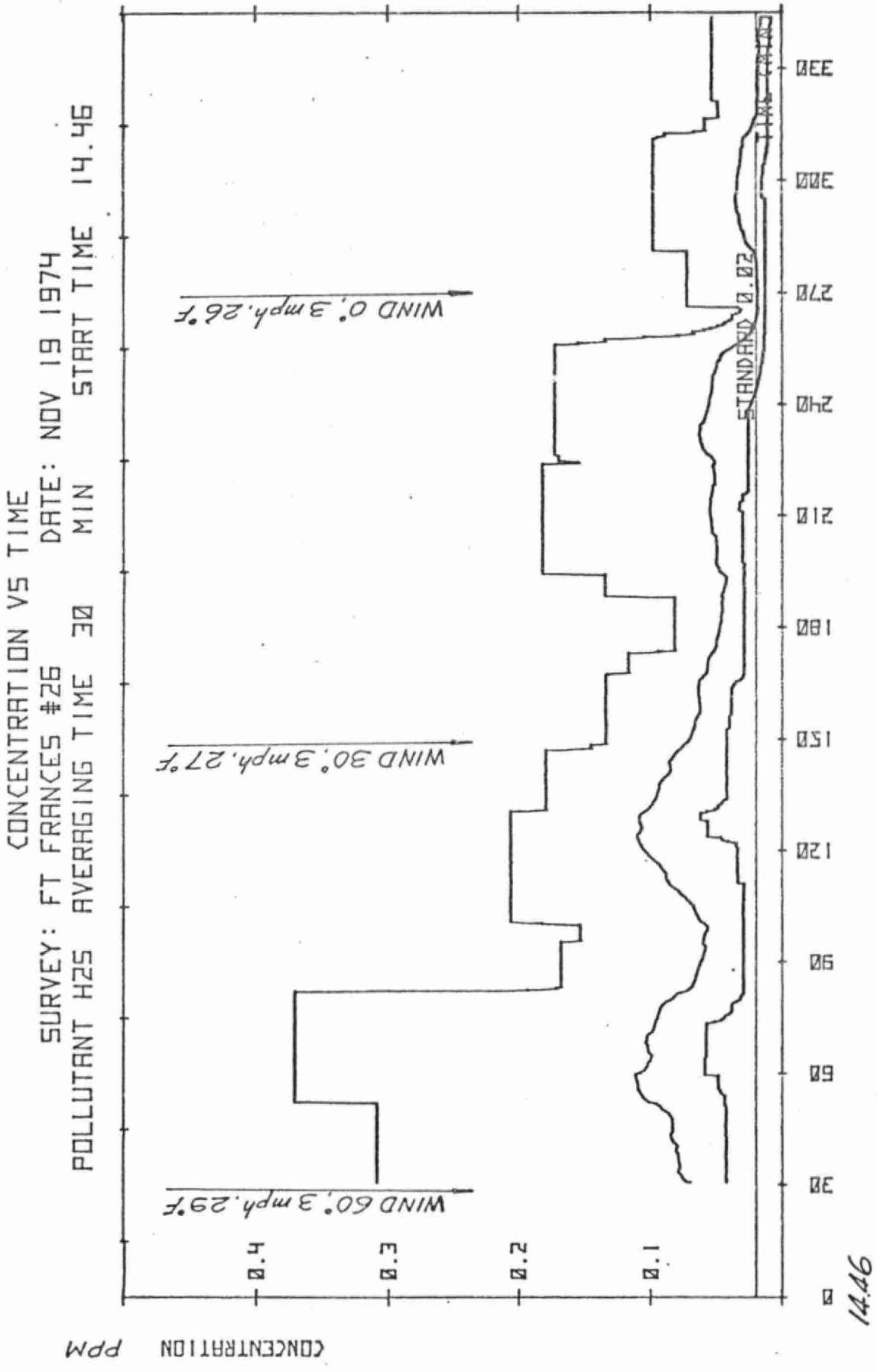

CONCENTRATION VS TIME
SURVEY: FT FRANCES #25
DATE: NOV 19 1974
POLLUTANT H2S AVERAGING TIME 30 MIN
START TIME 9.01
CONCENTRATION PPM
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
WIND 90°, 4 mph, 27°F
STANDARD 0.02
TIME (MIN)
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180
190
9.01

FIGURE 26

FIGURE 27


CONCENTRATION VS TIME
SURVEY: FT FRANCES #26 DATE: NOV 19 1974
POLLUTANT H2S AVERAGING TIME 30 MIN START TIME 14.46
WIND 60°, 3mph, 29°F
WIND 30°, 3mph, 27°F
WIND 0°, 3mph, 26°F
STANDARD 0.02
CONCENTRATION PPM
0.4
0.3
0.2
0.1
0
30
60
90
120
150
180
210
240
270
300
330
14.46

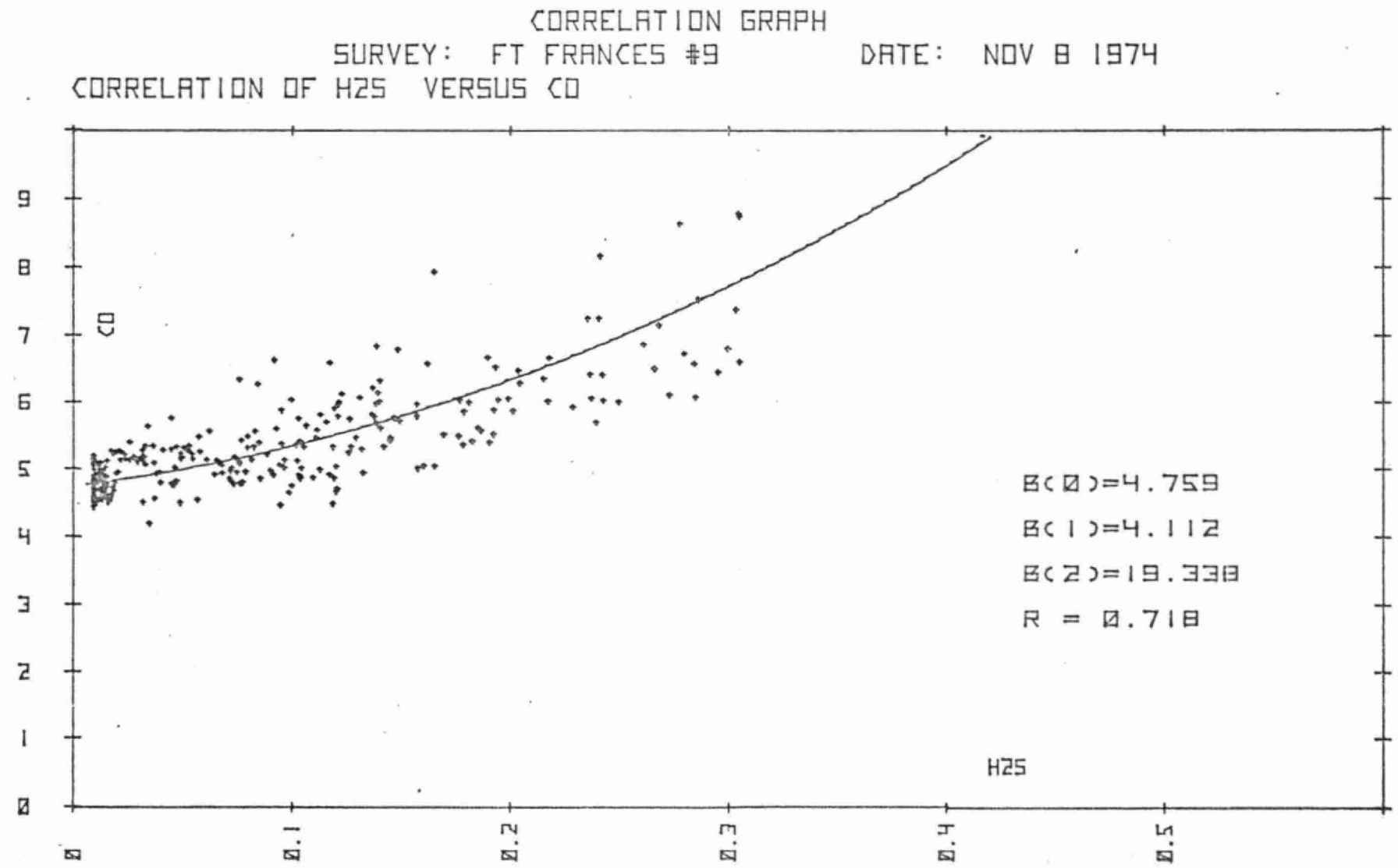

CORRELATION GRAPH
SURVEY: FT FRANCES #9
DATE: NOV 8 1974
CORRELATION OF H2S VERSUS CO
CO
H2S
B(0)=4.759
B(1)=4.112
B(2)=19.338
R = 0.718
0
1
2
3
4
5
6
7
8
9
0
0.1
0.2
0.3
0.4
0.5

FIGURE 28

CORRELATION GRAPH

SURVEY: FT FRANCES #9 DATE: NOV 8 1974

CORRELATION OF H2S VERSUS THC

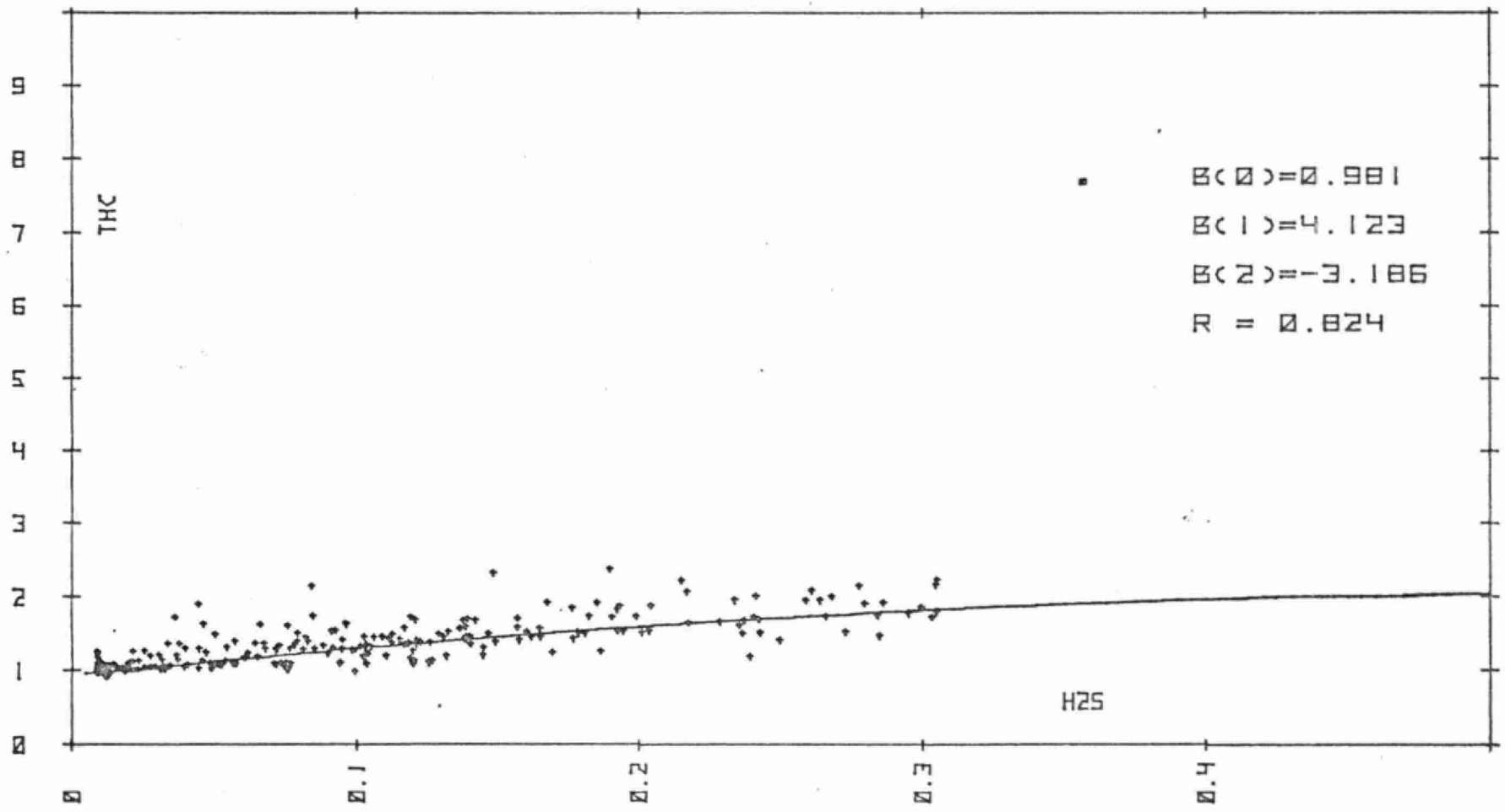


FIGURE 29

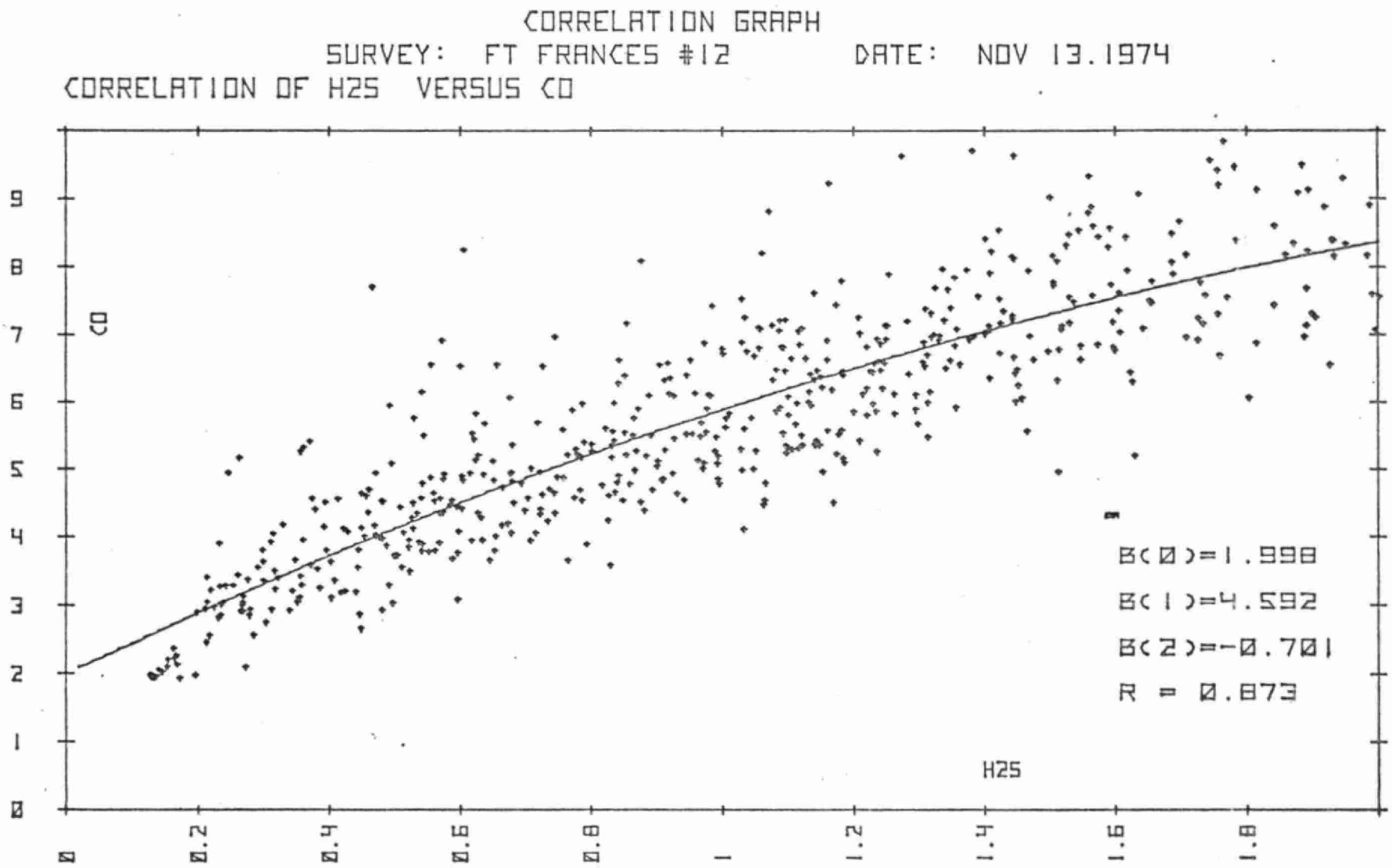

CORRELATION GRAPH
SURVEY: FT FRANCES #12 DATE: NOV 13.1974
CORRELATION OF H2S VERSUS CO
CO
H2S
B(0)=1.998
B(1)=4.592
B(2)=-0.701
R = 0.873
0
1
2
3
4
5
6
7
8
9
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8

FIGURE 30

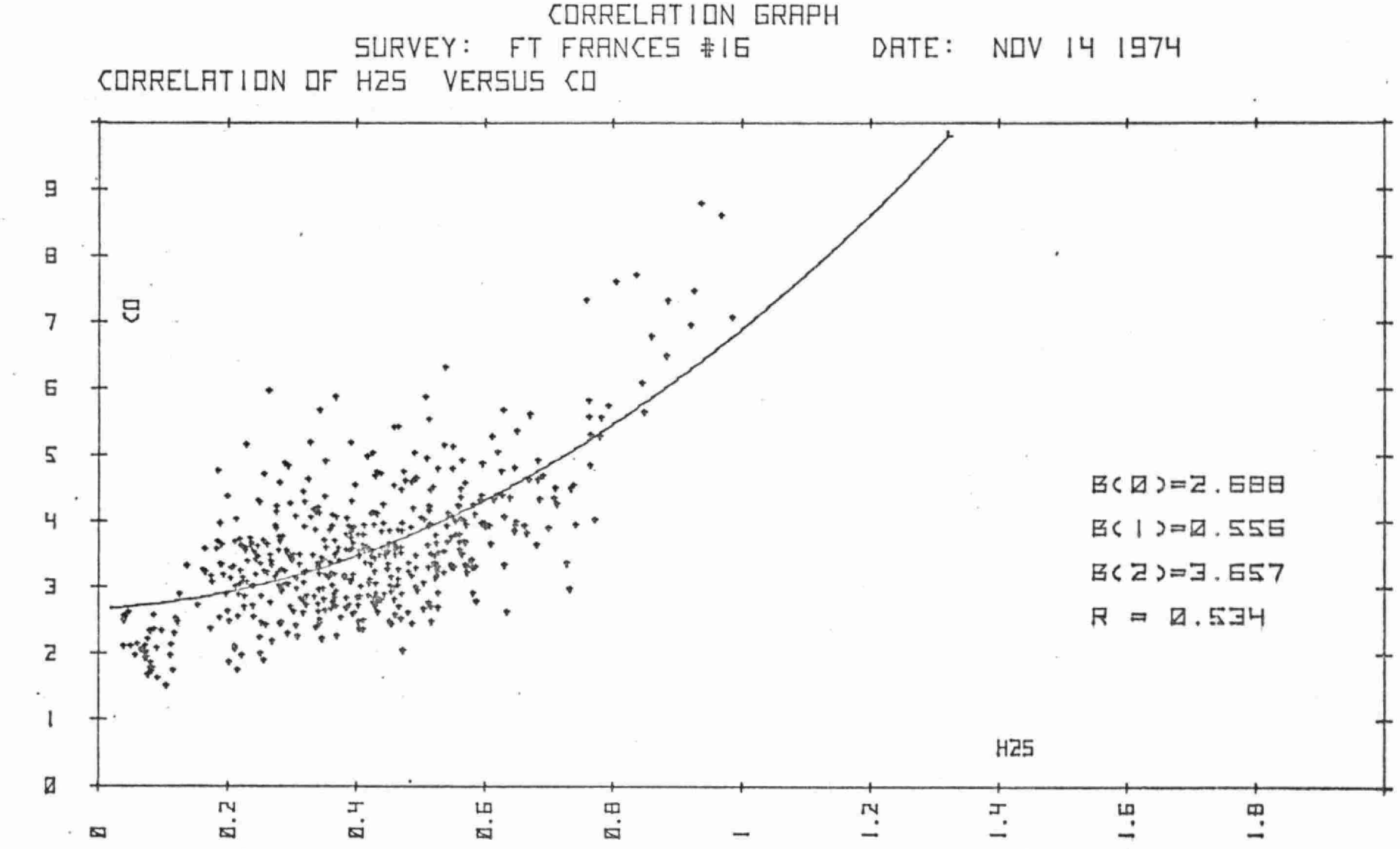

CORRELATION GRAPH
SURVEY: FT FRANCES #16 DATE: NOV 14 1974
CORRELATION OF H2S VERSUS CO
CO
H2S
B(0)=2.688
B(1)=0.556
B(2)=3.657
R = 0.534
0
1
2
3
4
5
6
7
8
9
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8

FIGURE 31

Figure 32. View at the Ontario-Minnesota Company sulfate paper mill in Fort Frances from Sinclair Rd.

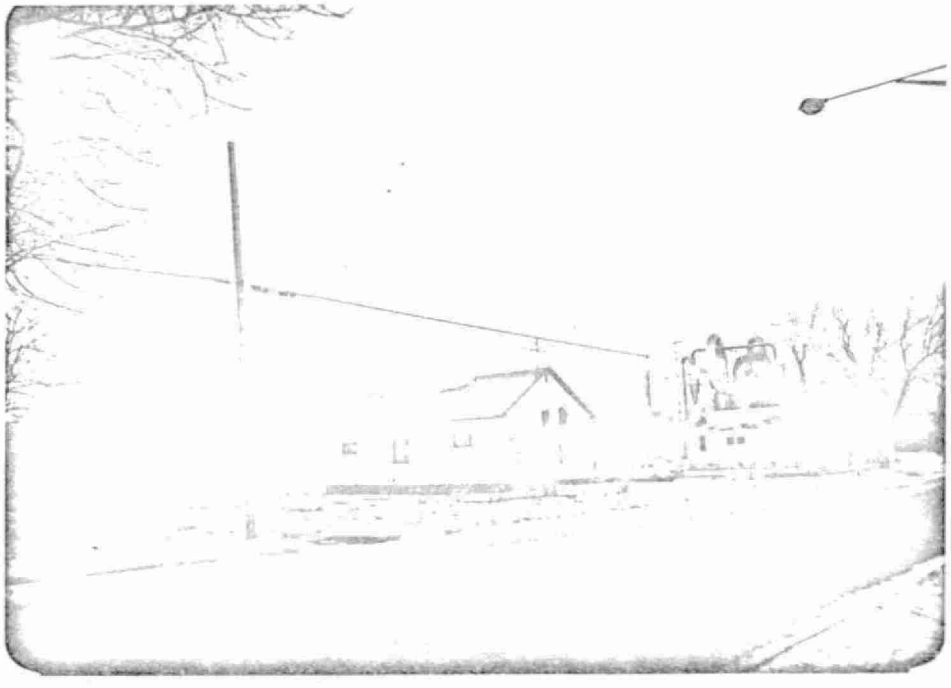


Figure 33. View at the Ontario-Minnesota Company sulfate paper mill in Fort Frances from the same point on Sinclair Rd. few minutes later with the heavy plume falling down on the adjacent residential property.

Figure 34. Car-corrosion, claimed to be cuased by the dustfall from the Ontario-Minnesota sulfate paper mill. White particulate matter visible on the surface. Vehicle is owned by a resident on Sinclair Rd.

Figure 35. View at the Boise Cascade Corp. plant from Fort Frances, road between the play ground (SM 149) and park (Block M -SM 121) with the mobile monitoring station in position.

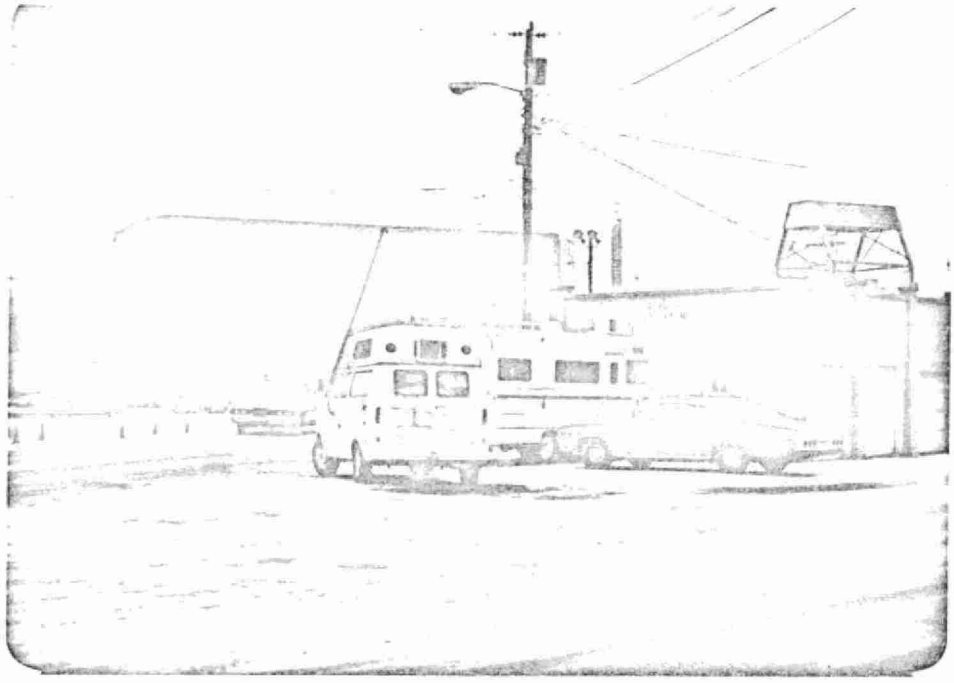


Figure 36. View at the Boise Cascade Corp. plant from the U.S.A. Customs and Immigration Building in International Falls. Mobile monitoring station in position with the Winebago of the Minnesota Pollution Agency in the background.

12.010 SURVEY: FT FRANCES #1

DATE NOV 7 1974 SCAN TIME 60 SEC AVERAGING TIME 30 MIN

TIME	CO	H2S	THC	SO2
11.300	3.743E+00	1.363E-01	1.625E+00	7.358E-03
11.310	3.715E+00	1.302E-01	1.602E+00	7.395E-03
11.320	3.660E+00	1.159E-01	1.584E+00	7.451E-03
11.330	3.644E+00	1.030E-01	1.572E+00	7.488E-03
11.340	3.637E+00	9.323E-02	1.573E+00	7.489E-03
11.350	3.625E+00	8.992E-02	1.572E+00	7.503E-03
11.360	3.622E+00	8.671E-02	1.546E+00	6.637E-03
11.370	3.616E+00	7.823E-02	1.538E+00	6.671E-03
11.380	3.592E+00	7.693E-02	1.530E+00	7.155E-03
11.390	3.557E+00	7.961E-02	1.537E+00	7.221E-03
11.400	3.448E+00	7.554E-02	1.485E+00	7.109E-03

STATISTICS

POLLUTANT	NUMBER OF READINGS	ARITHMETIC MEAN	STANDARD DEVIATION	GEOMETRIC MEAN	GEOMETRIC STANDARD DEVIATION
CO	11	3.624E+00	7.766E-02	3.623E+00	1.022E+00
H2S	11	9.687E-02	2.174E-02	9.483E-02	1.238E+00
THC	11	1.560E+00	3.870E-02	1.560E+00	1.025E+00
SO2	11	7.225E-03	3.142E-04	7.219E-03	1.044E+00

SURVEY: FT FRANCES #2

DATE NOV 7 1974 SCAN TIME 60 SEC AVERAGING TIME 30 MIN

TIME	CO	H2S	THC	SO2
11.580	4.349E+00	8.032E-02	1.631E+00	2.8[illegible]E-02
11.590	4.427E+00	8.009E-02	1.643E+00	2.[illegible]E-02
12.000	4.43[illegible]E+00	8.129E-02	1.[illegible]E+00	2.[illegible]E-02
12.010	4.232E+00	7.950E-02	1.[illegible]E+00	2.[illegible]E-02
12.020	4.030E+00	7.998E-02	1.621E+00	2.900E-02
12.030	3.981E+00	7.852E-02	1.624E+00	2.855E-02
12.040	3.992E+00	7.995E-02	1.63[illegible]E+00	2.[illegible]E-02
12.050	4.200E+00	8.083E-02	1.682E+00	2.804E-02
12.060	4.264E+00	8.162E-02	1.693E+00	2.794E-02
12.070	4.308E+00	8.298E-02	1.698E+00	2.785E-02
12.080	4.352E+00	8.302E-02	1.710E+00	2.770E-02
12.090	4.418E+00	7.881E-02	1.719E+00	2.755E-02
12.100	4.415E+00	7.929E-02	1.740E+00	2.744E-02
12.110	4.500E+00	7.546E-02	1.748E+00	2.733E-02
12.120	4.559E+00	7.558E-02	1.769E+00	2.718E-02
12.130	4.635E+00	8.024E-02	1.802E+00	2.737E-02
12.140	4.668E+00	8.346E-02	1.815E+00	2.733E-02
12.150	4.686E+00	8.184E-02	1.826E+00	2.722E-02
12.160	4.660E+00	8.435E-02	1.744E+00	2.789E-02
12.170	4.857E+00	8.450E-02	1.755E+00	2.793E-02
12.180	4.850E+00	8.460E-02	1.775E+00	2.775E-02
12.190	4.862E+00	8.403E-02	1.765E+00	2.820E-02
12.200	4.889E+00	8.553E-02	1.766E+00	2.791E-02
12.210	4.886E+00	8.381E-02	1.782E+00	2.745E-02
12.220	4.899E+00	8.165E-02	1.782E+00	2.652E-02
12.230	4.906E+00	8.113E-02	1.778E+00	2.558E-02
12.240	4.916E+00	8.070E-02	1.771E+00	2.500E-02
12.250	4.956E+00	7.883E-02	1.799E+00	2.465E-02
12.260	4.949E+00	8.464E-02	1.790E+00	2.371E-02
12.270	4.935E+00	8.378E-02	1.794E+00	2.272E-02
12.280	5.030E+00	8.636E-02	1.786E+00	2.224E-02
12.290	5.012E+00	8.747E-02	1.789E+00	2.175E-02
12.300	5.013E+00	8.823E-02	1.791E+00	2.139E-02
12.310	5.001E+00	8.874E-02	1.776E+00	2.068E-02
12.320	5.000E+00	8.778E-02	1.779E+00	2.067E-02
12.330	5.003E+00	8.934E-02	1.780E+00	2.197E-02
12.340	5.012E+00	8.846E-02	1.774E+00	2.180E-02
12.350	4.859E+00	8.594E-02	1.734E+00	2.170E-02
12.360	4.818E+00	8.345E-02	1.723E+00	2.134E-02
12.370	4.787E+00	8.051E-02	1.721E+00	2.106E-02
12.380	4.744E+00	7.927E-02	1.707E+00	2.064E-02
12.390	4.705E+00	7.895E-02	1.699E+00	2.042E-02
12.400	4.704E+00	7.801E-02	1.689E+00	2.057E-02
12.410	4.623E+00	7.697E-02	1.690E+00	2.046E-02
12.420	4.579E+00	7.636E-02	1.685E+00	2.042E-02
12.430	4.607E+00	7.147E-02	1.679E+00	2.004E-02
12.440	4.620E+00	6.711E-02	1.715E+00	1.996E-02
12.450	4.609E+00	7.041E-02	1.718E+00	1.957E-02
12.460	4.636E+00	6.861E-02	1.703E+00	1.910E-02
12.470	4.439E+00	7.025E-02	1.698E+00	1.887E-02
12.480	4.456E+00	6.857E-02	1.686E+00	1.887E-02
12.490	4.456E+00	6.866E-02	1.686E+00	1.823E-02
12.500	4.462E+00	6.720E-02	1.689E+00	1.825E-02
12.510	4.475E+00	7.007E-02	1.683E+00	1.834E-02
12.520	4.460E+00	7.632E-02	1.696E+00	1.852E-02
12.530	4.456E+00	7.923E-02	1.705E+00	1.849E-02
12.540	4.453E+00	8.294E-02	1.708E+00	1.812E-02
12.550	4.405E+00	8.516E-02	1.678E+00	1.747E-02
12.560	4.403E+00	8.352E-02	1.693E+00	1.747E-02
12.570	4.402E+00	8.180E-02	1.682E+00	1.747E-02
12.580	4.280E+00	8.035E-02	1.687E+00	1.734E-02
12.590	4.270E+00	8.334E-02	1.681E+00	1.723E-02
13.000	4.262E+00	8.200E-02	1.681E+00	1.714E-02
13.010	4.230E+00	8.874E-02	1.703E+00	1.691E-02
13.020	4.222E+00	9.129E-02	1.710E+00	1.669E-02
13.030	4.210E+00	8.956E-02	1.714E+00	1.520E-02
13.040	4.069E+00	8.493E-02	1.660E+00	1.461E-02

STATISTICS

POLLUTANT	NUMBER OF READINGS	ARITHMETIC MEAN	STANDARD DEVIATION	GEOMETRIC MEAN	GEOMETRIC STANDARD DEVIATION
CO	67	4.579E+00	9.916E-01	4.570E+00	1.0[illegible]
H2S	67	8.071E-02	5.856E-03	8.052E-02	1.0[illegible]
THC	67	1.721E+00	5.293E-02	1.720E+00	1.031E+0
SO2	67	2.286E-02	4.456E-03	2.244E-02	1.225E+0

SURVEY: FT FRANCES #3

DATE NOV 7 1974 SCAN TIME 60 SEC AVERAGING TIME 30 MIN

TIME	CO	H2S	THC	SO2
13.550	2.895E+00	3.735E-02	7.487E-01	1.283E-02
13.560	2.896E+00	3.682E-02	7.545E-01	1.317E-02
13.570	2.911E+00	3.687E-02	7.726E-01	1.313E-02
13.580	3.112E+00	3.593E-02	7.751E-01	1.346E-02
13.590	3.097E+00	3.595E-02	7.859E-01	1.392E-02
14.000	3.092E+00	3.583E-02	7.833E-01	1.385E-02
14.010	3.090E+00	3.566E-02	7.765E-01	1.457E-02
14.020	3.068E+00	3.538E-02	7.778E-01	1.258E-02
14.030	3.048E+00	3.506E-02	7.558E-01	1.218E-02
14.040	3.082E+00	3.477E-02	7.463E-01	1.214E-02
14.050	3.078E+00	3.553E-02	7.580E-01	1.204E-02
14.060	3.056E+00	3.495E-02	7.486E-01	1.166E-02
14.070	3.037E+00	3.355E-02	7.585E-01	9.847E-03
14.080	3.110E+00	3.211E-02	7.428E-01	8.017E-03
14.090	3.100E+00	2.986E-02	7.405E-01	6.152E-03
14.100	3.089E+00	3.112E-02	7.362E-01	4.024E-03
14.110	3.083E+00	3.253E-02	7.340E-01	4.449E-03
14.120	3.064E+00	3.401E-02	7.295E-01	3.876E-03
14.130	3.039E+00	3.366E-02	7.150E-01	3.701E-03
14.140	3.043E+00	3.214E-02	7.090E-01	4.765E-03
14.150	3.033E+00	3.052E-02	7.009E-01	5.832E-03
14.160	3.029E+00	3.051E-02	6.984E-01	6.589E-03
14.170	3.024E+00	2.947E-02	6.849E-01	6.367E-03
14.180	3.012E+00	2.973E-02	7.172E-01	6.732E-03
14.190	3.012E+00	3.092E-02	7.321E-01	8.398E-03
14.200	3.018E+00	3.064E-02	7.567E-01	8.935E-03
14.210	3.027E+00	2.974E-02	7.691E-01	9.166E-03
14.220	3.031E+00	2.834E-02	7.548E-01	9.536E-03
14.230	3.032E+00	2.750E-02	7.461E-01	1.033E-02
14.240	3.311E+00	2.744E-02	7.351E-01	1.078E-02
14.250	3.351E+00	2.798E-02	7.377E-01	1.083E-02
14.260	3.367E+00	2.854E-02	7.288E-01	1.110E-02
14.270	3.390E+00	2.901E-02	7.148E-01	1.147E-02
14.280	3.216E+00	2.891E-02	7.174E-01	1.175E-02
14.290	3.236E+00	3.016E-02	7.206E-01	1.125E-02
14.300	3.261E+00	3.030E-02	7.282E-01	1.126E-02
14.310	3.290E+00	3.105E-02	7.307E-01	1.130E-02
14.320	3.299E+00	3.134E-02	7.396E-01	1.165E-02
14.330	3.314E+00	3.157E-02	7.464E-01	1.204E-02
14.340	3.273E+00	3.332E-02	7.537E-01	1.268E-02
14.350	3.340E+00	3.252E-02	7.473E-01	1.292E-02
14.360	3.348E+00	3.215E-02	7.532E-01	1.292E-02
14.370	3.379E+00	3.197E-02	7.459E-01	1.299E-02
14.380	3.341E+00	3.195E-02	7.564E-01	1.291E-02
14.390	3.371E+00	3.183E-02	7.519E-01	1.240E-02
14.400	3.371E+00	3.016E-02	7.429E-01	1.277E-02
14.410	3.429E+00	2.842E-02	7.504E-01	1.210E-02
14.420	3.467E+00	2.687E-02	7.620E-01	1.174E-02
14.430	3.512E+00	2.612E-02	7.788E-01	1.116E-02
14.440	3.547E+00	2.670E-02	7.909E-01	1.082E-02
14.450	3.592E+00	2.654E-02	8.247E-01	9.281E-03

STATISTICS

POLLUTANT	NUMBER OF READINGS	ARITHMETIC MEAN	STANDARD DEVIATION	GEOMETRIC MEAN	GEOMETRIC STANDARD DEVIATION
CO	51	3.180E+00	1.808E-01	3.176E+00	1.058E+00
H2S	51	3.159E-02	3.054E-03	3.146E-02	1.108E+00
THC	51	7.464E-01	2.622E-02	7.460E-01	1.035E+00
SO2	51	1.040E-02	2.959E-03	9.850E-03	1.442E+00

SURVEY: FT FRANCES #4

DATE NOV 7 1974 SCAN TIME 60 SEC AVERAGING TIME 30 MIN

TIME	CO	H2S	THC
15.280	2.823E+00	3.703E-02	8.148E-01
15.290	2.804E+00	3.627E-02	8.334E-01
15.300	2.804E+00	3.528E-02	8.471E-01
15.310	2.817E+00	3.464E-02	8.446E-01
15.320	2.817E+00	3.365E-02	8.543E-01
15.330	2.716E+00	3.256E-02	8.378E-01
15.340	2.606E+00	3.220E-02	8.181E-01
15.350	2.519E+00	3.193E-02	7.852E-01
15.360	2.440E+00	3.033E-02	7.608E-01
15.370	2.344E+00	2.886E-02	7.335E-01
15.380	2.258E+00	2.761E-02	7.045E-01

STATISTICS

POLLUTANT	NUMBER OF READINGS	ARITHMETIC MEAN	STANDARD DEVIATION	GEOMETRIC MEAN	GEOMETRIC STANDARD DEVIATION
CO	11	2.632E+00	2.113E-01	2.624E+00	1.086E+00
H2S	11	3.276E-02	3.000E-03	3.263E-02	1.098E+00
THC	11	8.031E-01	5.045E-02	8.016E-01	1.067E+00

SURVEY: FT FRANCES #5

DATE NOV 7 1974 SCAN TIME 60 SEC AVERAGING TIME 30 MIN

TIME	CO	H2S	THC
16.030	3.222E+00	2.013E-02	5.622E-01
16.040	3.142E+00	1.839E-02	5.518E-01
16.050	3.172E+00	1.611E-02	5.523E-01
16.060	3.137E+00	1.642E-02	5.665E-01
16.070	3.277E+00	1.669E-02	5.783E-01
16.080	3.370E+00	1.688E-02	5.760E-01
16.090	3.366E+00	1.574E-02	5.862E-01
16.100	3.412E+00	1.505E-02	6.032E-01
16.110	3.411E+00	1.483E-02	6.360E-01
16.120	3.441E+00	1.474E-02	6.729E-01
16.130	3.462E+00	1.374E-02	6.898E-01
16.140	3.451E+00	1.306E-02	7.106E-01
16.150	3.468E+00	1.256E-02	6.941E-01
16.160	3.522E+00	1.244E-02	7.182E-01
16.170	3.427E+00	1.184E-02	7.054E-01
16.180	3.318E+00	1.147E-02	6.883E-01
16.190	3.226E+00	1.047E-02	6.707E-01
16.200	3.110E+00	1.543E-02	6.499E-01
16.210	3.009E+00	1.356E-02	6.302E-01
16.220	2.883E+00	1.279E-02	6.084E-01
16.230	2.775E+00	1.169E-02	5.751E-01

STATISTICS

POLLUTANT	NUMBER OF READINGS	ARITHMETIC MEAN	STANDARD DEVIATION	GEOMETRIC MEAN	GEOMETRIC STANDARD DEVIATION
CO	21	3.267E+00	2.027E-01	3.260E+00	1.066E+00
H2S	21	1.448E-02	2.464E-03	1.428E-02	1.184E+00
THC	21	6.298E-01	5.826E-02	6.273E-01	1.097E+00

SURVEY: FT FRANCES #6

DATE NOV 7 1974 SCAN TIME 60 SEC AVERAGING TIME 30 MIN

TIME	CO	H2S	THC
16.500	2.769E+00	2.233E-02	1.103E+00
16.510	2.666E+00	2.101E-02	1.098E+00
16.520	2.739E+00	1.984E-02	1.103E+00
16.530	2.805E+00	1.858E-02	1.103E+00
16.540	2.859E+00	1.729E-02	1.109E+00
16.550	2.774E+00	1.593E-02	1.082E+00
16.560	2.709E+00	1.463E-02	1.047E+00
16.570	2.630E+00	1.324E-02	1.010E+00
16.580	2.551E+00	1.175E-02	9.685E-01
16.590	2.478E+00	1.030E-02	9.338E-01
17.000	2.412E+00	9.362E-03	9.020E-01

STATISTICS

POLLUTANT	NUMBER OF READINGS	ARITHMETIC MEAN	STANDARD DEVIATION	GEOMETRIC MEAN	GEOMETRIC STANDARD DEVIATION
CO	11	2.672E+00	1.419E-01	2.669E+00	1.055E+00
H2S	11	1.584E-02	4.385E-03	1.526E-02	1.341E+00
THC	11	1.042E+00	7.625E-02	1.039E+00	1.078E+00

SURVEY: FT FRANCES #7

DATE NOV 7 1974 SCAN TIME 60 SEC AVERAGING TIME 30 MIN

TIME	CO	H2S	THC	SO2
18.510	7.951E+00	9.987E-03	2.587E+00	4.640E-04
18.520	7.256E+00	8.154E-03	2.439E+00	3.229E-04
18.530	7.219E+00	6.052E-03	2.413E+00	2.445E-04
18.540	7.073E+00	3.700E-03	2.311E+00	1.382E-04
18.550	6.614E+00	1.758E-03	2.240E+00	5.774E-05
18.560	6.530E+00	6.503E-04	2.203E+00	-8.123E-05
18.570	6.483E+00	-1.844E-04	2.164E+00	-6.824E-05
18.580	6.242E+00	1.646E-05	2.152E+00	-1.907E-04
18.590	6.189E+00	4.291E-04	2.140E+00	-1.872E-04
19.000	6.106E+00	2.509E-03	2.091E+00	-1.798E-04
19.010	5.957E+00	6.293E-03	1.970E+00	-3.196E-04
19.020	5.210E+00	1.052E-02	1.876E+00	-3.624E-04
19.030	5.192E+00	1.405E-02	1.819E+00	-4.052E-04
19.040	5.203E+00	1.618E-02	1.741E+00	-4.788E-04
19.050	5.046E+00	1.929E-02	1.712E+00	-5.323E-04
19.060	4.929E+00	2.232E-02	1.685E+00	-5.742E-04
19.070	4.845E+00	2.483E-02	1.671E+00	-6.110E-04
19.080	4.748E+00	2.677E-02	1.653E+00	-6.924E-04
19.090	4.883E+00	3.047E-02	1.677E+00	-7.439E-04
19.100	4.733E+00	3.335E-02	1.601E+00	-7.821E-04
19.110	4.224E+00	3.847E-02	1.539E+00	-8.366E-04
19.120	4.121E+00	4.483E-02	1.534E+00	-6.851E-04
19.130	4.039E+00	5.060E-02	1.528E+00	-7.120E-05
19.140	4.066E+00	5.314E-02	1.532E+00	6.126E-04
19.150	4.085E+00	5.547E-02	1.504E+00	1.227E-03
19.160	4.030E+00	5.854E-02	1.511E+00	1.697E-03
19.170	4.011E+00	5.995E-02	1.491E+00	1.942E-03
19.180	3.944E+00	6.111E-02	1.480E+00	1.931E-03
19.190	3.861E+00	6.187E-02	1.464E+00	1.949E-03
19.200	3.803E+00	6.319E-02	1.459E+00	1.944E-03
19.210	3.739E+00	6.433E-02	1.459E+00	1.962E-03
19.220	3.674E+00	6.584E-02	1.455E+00	2.012E-03
19.230	3.595E+00	6.747E-02	1.449E+00	2.017E-03
19.240	3.668E+00	6.868E-02	1.451E+00	2.047E-03
19.250	3.653E+00	6.957E-02	1.429E+00	2.050E-03
19.260	3.620E+00	7.027E-02	1.424E+00	2.090E-03
19.270	3.577E+00	7.242E-02	1.415E+00	2.069E-03
19.280	3.538E+00	7.373E-02	1.396E+00	2.068E-03
19.290	3.504E+00	7.584E-02	1.382E+00	2.076E-03
19.300	3.467E+00	7.622E-02	1.359E+00	2.049E-03
19.310	3.454E+00	7.463E-02	1.338E+00	2.064E-03
19.320	3.436E+00	7.205E-02	1.308E+00	2.017E-03
19.330	3.312E+00	7.029E-02	1.279E+00	1.957E-03
19.340	3.103E+00	6.916E-02	1.246E+00	1.797E-03
19.350	3.055E+00	6.730E-02	1.217E+00	1.645E-03
19.360	3.045E+00	6.483E-02	1.190E+00	1.461E-03
19.370	3.020E+00	6.318E-02	1.167E+00	1.272E-03
19.380	3.001E+00	6.196E-02	1.146E+00	1.145E-03
19.390	2.670E+00	5.913E-02	1.089E+00	9.924E-04
19.400	2.643E+00	5.679E-02	1.058E+00	8.423E-04
19.410	2.675E+00	5.221E-02	1.038E+00	7.470E-04
19.420	2.623E+00	4.632E-02	1.014E+00	6.962E-04
19.430	2.638E+00	4.090E-02	9.961E-01	5.920E-04
19.440	2.636E+00	3.865E-02	9.730E-01	4.907E-04
19.450	2.596E+00	3.657E-02	9.544E-01	3.809E-04
19.460	2.508E+00	3.358E-02	8.969E-01	3.201E-04

STATISTICS

POLLUTANT	NUMBER OF READINGS	ARITHMETIC MEAN	STANDARD DEVIATION	GEOMETRIC MEAN	GEOMETRIC STANDARD DEVIATION
CO	56	4.304E+00	1.414E+00	4.097E+00	1.366E+00
H2S	56	4.279E-02	2.597E-02	2.172E-02	7.951E+00
THC	56	1.559E+00	4.131E-01	1.508E+00	1.296E+00
SO2	56	7.783E-04	1.039E-03	1.119E-04	2.866E+01

SURVEY: FT FRANCES #9

DATE NOV 8 1974 SCAN TIME 30 SEC AVERAGING TIME 30 MIN

TIME	CO	H2S	THC	SO2
10.050	5.498E+00	1.394E-01	1.351E+00	1.803E-03
10.055	5.527E+00	1.419E-01	1.356E+00	1.465E-03
10.060	5.465E+00	1.409E-01	1.337E+00	1.152E-03
10.065	5.401E+00	1.356E-01	1.328E+00	8.189E-04
10.070	5.402E+00	1.338E-01	1.334E+00	4.945E-04
10.075	5.416E+00	1.349E-01	1.338E+00	1.375E-04
10.080	5.417E+00	1.343E-01	1.335E+00	-1.926E-04
10.085	5.429E+00	1.352E-01	1.344E+00	-4.927E-04
10.090	5.442E+00	1.371E-01	1.355E+00	-7.615E-04
10.095	5.462E+00	1.382E-01	1.358E+00	-1.036E-03
10.100	5.396E+00	1.377E-01	1.361E+00	-1.276E-03
10.105	5.412E+00	1.389E-01	1.373E+00	-1.392E-03
10.110	5.409E+00	1.392E-01	1.362E+00	-1.539E-03
10.115	5.334E+00	1.353E-01	1.348E+00	-1.673E-03
10.120	5.295E+00	1.300E-01	1.338E+00	-1.811E-03
10.125	5.267E+00	1.265E-01	1.334E+00	-2.211E-03
10.130	5.275E+00	1.253E-01	1.341E+00	-2.548E-03
10.135	5.289E+00	1.265E-01	1.346E+00	-2.900E-03
10.140	5.300E+00	1.261E-01	1.350E+00	-3.110E-03
10.145	5.312E+00	1.270E-01	1.350E+00	-3.345E-03
10.150	5.382E+00	1.266E-01	1.364E+00	-3.476E-03
10.155	5.401E+00	1.275E-01	1.372E+00	-3.565E-03
10.160	5.422E+00	1.284E-01	1.375E+00	-3.470E-03
10.165	5.730E+00	1.301E-01	1.406E+00	-3.413E-03
10.170	5.787E+00	1.354E-01	1.415E+00	-3.294E-03
10.175	5.850E+00	1.371E-01	1.425E+00	-3.046E-03
10.180	5.860E+00	1.388E-01	1.433E+00	-2.751E-03
10.185	5.893E+00	1.407E-01	1.440E+00	-2.584E-03
10.190	5.906E+00	1.411E-01	1.442E+00	-2.289E-03
10.195	5.906E+00	1.411E-01	1.438E+00	-2.085E-03
10.200	5.890E+00	1.382E-01	1.429E+00	-1.862E-03
10.205	5.935E+00	1.360E-01	1.421E+00	-1.631E-03
10.210	5.925E+00	1.335E-01	1.423E+00	-1.367E-03
10.215	5.909E+00	1.326E-01	1.420E+00	-1.160E-03
10.220	5.901E+00	1.297E-01	1.415E+00	-9.671E-04
10.225	5.916E+00	1.281E-01	1.413E+00	-8.084E-04
10.230	5.898E+00	1.261E-01	1.403E+00	-6.356E-04
10.235	5.881E+00	1.216E-01	1.395E+00	-4.896E-04
10.240	5.847E+00	1.199E-01	1.382E+00	-3.990E-04
10.245	5.813E+00	1.160E-01	1.367E+00	-3.778E-04
10.250	5.792E+00	1.129E-01	1.361E+00	-4.140E-04
10.255	5.739E+00	1.085E-01	1.347E+00	-4.208E-04
10.260	5.762E+00	1.066E-01	1.351E+00	-4.587E-04
10.265	5.759E+00	1.061E-01	1.357E+00	-4.607E-04
10.270	5.780E+00	1.058E-01	1.363E+00	-5.340E-04
10.275	5.766E+00	1.058E-01	1.358E+00	-5.526E-04
10.280	5.797E+00	1.050E-01	1.370E+00	-5.755E-04
10.285	5.798E+00	1.032E-01	1.373E+00	-5.924E-04
10.290	5.807E+00	1.023E-01	1.386E+00	-5.804E-04
10.295	5.824E+00	1.019E-01	1.399E+00	-5.372E-04
10.300	5.843E+00	1.017E-01	1.424E+00	-4.829E-04
10.305	5.886E+00	1.039E-01	1.445E+00	-4.539E-04
10.310	5.918E+00	1.071E-01	1.467E+00	-5.064E-04
10.315	5.945E+00	1.098E-01	1.485E+00	-4.094E-04
10.320	5.963E+00	1.123E-01	1.498E+00	-3.899E-04
10.325	5.986E+00	1.151E-01	1.508E+00	-2.139E-04
10.330	6.005E+00	1.166E-01	1.519E+00	-1.287E-04
10.335	6.004E+00	1.204E-01	1.524E+00	3.037E-05
10.340	6.033E+00	1.221E-01	1.550E+00	2.354E-04
10.345	6.037E+00	1.249E-01	1.555E+00	5.813E-04
10.350	6.045E+00	1.256E-01	1.553E+00	9.666E-04
10.355	6.028E+00	1.239E-01	1.555E+00	1.330E-03
10.360	6.035E+00	1.230E-01	1.556E+00	1.672E-03
10.365	6.051E+00	1.235E-01	1.560E+00	1.959E-03
10.370	6.040E+00	1.228E-01	1.557E+00	2.182E-03
10.375	6.032E+00	1.209E-01	1.554E+00	2.431E-03
10.380	6.021E+00	1.191E-01	1.559E+00	2.692E-03
10.385	6.044E+00	1.193E-01	1.575E+00	2.945E-03
10.390	6.072E+00	1.227E-01	1.581E+00	3.124E-03
10.395	6.205E+00	1.276E-01	1.602E+00	3.382E-03

TIME	CO	H2S	THC	SO2
10.400	6.223E+00	1.295E-01	1.614E+00	3.818E-03
10.405	6.225E+00	1.309E-01	1.622E+00	4.167E-03
10.410	6.208E+00	1.307E-01	1.621E+00	4.539E-03
10.415	6.203E+00	1.300E-01	1.622E+00	4.906E-03
10.420	6.205E+00	1.297E-01	1.622E+00	5.162E-03
10.425	6.192E+00	1.298E-01	1.620E+00	5.409E-03
10.430	6.179E+00	1.289E-01	1.613E+00	5.597E-03
10.435	6.175E+00	1.264E-01	1.621E+00	5.722E-03
10.440	6.172E+00	1.267E-01	1.635E+00	5.805E-03
10.445	6.136E+00	1.270E-01	1.632E+00	5.983E-03
10.450	6.092E+00	1.259E-01	1.624E+00	6.169E-03
10.455	6.063E+00	1.247E-01	1.618E+00	6.318E-03
10.460	6.034E+00	1.223E-01	1.617E+00	6.292E-03
10.465	5.725E+00	1.189E-01	1.590E+00	6.321E-03
10.470	5.666E+00	1.130E-01	1.580E+00	6.257E-03
10.475	5.618E+00	1.096E-01	1.578E+00	6.097E-03
10.480	5.616E+00	1.087E-01	1.575E+00	5.922E-03
10.485	5.596E+00	1.065E-01	1.582E+00	5.778E-03
10.490	5.583E+00	1.077E-01	1.580E+00	5.574E-03
10.495	5.569E+00	1.074E-01	1.576E+00	5.416E-03
10.500	5.556E+00	1.071E-01	1.574E+00	5.266E-03
10.505	5.546E+00	1.072E-01	1.572E+00	5.138E-03
10.510	5.558E+00	1.072E-01	1.568E+00	4.947E-03
10.515	5.567E+00	1.071E-01	1.565E+00	4.836E-03
10.520	5.553E+00	1.072E-01	1.561E+00	4.691E-03
10.525	5.556E+00	1.075E-01	1.559E+00	4.624E-03
10.530	5.551E+00	1.084E-01	1.553E+00	4.494E-03
10.535	5.535E+00	1.081E-01	1.543E+00	4.349E-03
10.540	5.536E+00	1.069E-01	1.544E+00	4.259E-03
10.545	5.544E+00	1.066E-01	1.545E+00	4.140E-03
10.550	5.570E+00	1.081E-01	1.553E+00	4.058E-03
10.555	5.588E+00	1.109E-01	1.556E+00	3.946E-03
10.560	5.572E+00	1.118E-01	1.556E+00	3.880E-03
10.565	5.562E+00	1.138E-01	1.543E+00	3.806E-03
10.570	5.589E+00	1.159E-01	1.553E+00	3.767E-03
10.575	5.633E+00	1.214E-01	1.563E+00	3.673E-03
10.580	5.651E+00	1.251E-01	1.557E+00	3.599E-03
10.585	5.677E+00	1.288E-01	1.560E+00	3.527E-03
10.590	5.687E+00	1.305E-01	1.560E+00	3.400E-03
10.595	5.669E+00	1.318E-01	1.551E+00	3.295E-03
11.000	5.653E+00	1.326E-01	1.536E+00	3.150E-03
11.005	5.644E+00	1.329E-01	1.517E+00	3.050E-03
11.010	5.609E+00	1.300E-01	1.496E+00	2.991E-03
11.015	5.638E+00	1.283E-01	1.497E+00	2.848E-03
11.020	5.630E+00	1.276E-01	1.485E+00	2.809E-03
11.025	5.626E+00	1.253E-01	1.477E+00	2.656E-03
11.030	5.652E+00	1.275E-01	1.486E+00	2.620E-03
11.035	5.680E+00	1.317E-01	1.482E+00	2.551E-03
11.040	5.663E+00	1.335E-01	1.458E+00	2.465E-03
11.045	5.663E+00	1.315E-01	1.453E+00	2.348E-03
11.050	5.670E+00	1.313E-01	1.449E+00	2.297E-03
11.055	5.674E+00	1.306E-01	1.444E+00	2.192E-03
11.060	5.681E+00	1.306E-01	1.443E+00	2.127E-03
11.065	5.683E+00	1.301E-01	1.435E+00	2.142E-03
11.070	5.689E+00	1.294E-01	1.431E+00	2.199E-03
11.075	5.689E+00	1.289E-01	1.425E+00	2.202E-03
11.080	5.672E+00	1.288E-01	1.414E+00	2.195E-03
11.085	5.646E+00	1.256E-01	1.392E+00	2.130E-03
11.090	5.607E+00	1.199E-01	1.378E+00	2.128E-03
11.095	5.460E+00	1.136E-01	1.352E+00	2.091E-03
11.100	5.435E+00	1.106E-01	1.337E+00	1.845E-03
11.105	5.401E+00	1.073E-01	1.318E+00	1.543E-03
11.110	5.407E+00	1.057E-01	1.314E+00	1.283E-03
11.115	5.404E+00	1.049E-01	1.308E+00	9.974E-04
11.120	5.413E+00	1.036E-01	1.312E+00	8.136E-04
11.125	5.419E+00	1.030E-01	1.306E+00	6.982E-04
11.130	5.408E+00	1.025E-01	1.302E+00	6.323E-04
11.135	5.405E+00	1.019E-01	1.290E+00	5.511E-04
11.140	5.393E+00	1.004E-01	1.271E+00	4.942E-04
11.145	5.389E+00	9.784E-02	1.265E+00	4.788E-04
11.150	5.388E+00	9.729E-02	1.260E+00	4.182E-04
11.155	5.386E+00	9.697E-02	1.256E+00	4.136E-04

TIME	CO	H2S	THC	SO2
11.160	5.380E+00	9.669E-02	1.250E+00	4.030E-04
11.165	5.373E+00	9.597E-02	1.248E+00	4.128E-04
11.170	5.370E+00	9.572E-02	1.244E+00	4.113E-04
11.175	5.358E+00	9.551E-02	1.236E+00	4.411E-04
11.180	5.342E+00	9.410E-02	1.233E+00	4.693E-04
11.185	5.328E+00	9.363E-02	1.220E+00	4.906E-04
11.190	5.329E+00	9.124E-02	1.218E+00	5.291E-04
11.195	5.328E+00	9.062E-02	1.218E+00	5.946E-04
11.200	5.328E+00	9.033E-02	1.219E+00	6.432E-04
11.205	5.325E+00	8.983E-02	1.220E+00	6.678E-04
11.210	5.314E+00	8.959E-02	1.220E+00	7.490E-04
11.215	5.307E+00	8.941E-02	1.220E+00	7.283E-04
11.220	5.305E+00	8.921E-02	1.221E+00	7.436E-04
11.225	5.284E+00	8.862E-02	1.222E+00	7.426E-04
11.230	5.277E+00	8.760E-02	1.221E+00	8.031E-04
11.235	5.284E+00	8.711E-02	1.224E+00	8.576E-04
11.240	5.276E+00	8.658E-02	1.218E+00	8.940E-04
11.245	5.268E+00	8.526E-02	1.215E+00	8.806E-04
11.250	5.239E+00	8.348E-02	1.206E+00	9.276E-04
11.255	5.217E+00	8.056E-02	1.195E+00	9.745E-04
11.260	5.203E+00	7.562E-02	1.187E+00	9.812E-04
11.265	5.191E+00	7.276E-02	1.184E+00	1.005E-03
11.270	5.147E+00	6.858E-02	1.163E+00	1.054E-03
11.275	5.097E+00	6.178E-02	1.145E+00	1.084E-03
11.280	5.074E+00	5.755E-02	1.139E+00	1.092E-03
11.285	5.045E+00	5.367E-02	1.128E+00	1.108E-03
11.290	5.019E+00	5.170E-02	1.114E+00	1.151E-03
11.295	5.008E+00	4.980E-02	1.110E+00	1.205E-03
11.300	4.993E+00	4.794E-02	1.101E+00	1.290E-03
11.305	4.976E+00	4.475E-02	1.097E+00	1.344E-03
11.310	4.967E+00	4.322E-02	1.095E+00	1.416E-03
11.315	4.921E+00	4.157E-02	1.075E+00	1.443E-03
11.320	4.917E+00	3.948E-02	1.073E+00	1.477E-03
11.325	4.915E+00	3.876E-02	1.069E+00	1.548E-03
11.330	4.884E+00	3.479E-02	1.048E+00	1.535E-03
11.335	4.844E+00	2.625E-02	1.042E+00	1.527E-03
11.340	4.832E+00	2.215E-02	1.040E+00	1.615E-03
11.345	4.823E+00	2.063E-02	1.038E+00	1.596E-03
11.350	4.816E+00	1.969E-02	1.036E+00	1.560E-03
11.355	4.807E+00	1.871E-02	1.032E+00	1.633E-03
11.360	4.811E+00	1.807E-02	1.030E+00	1.648E-03
11.365	4.805E+00	1.761E-02	1.030E+00	1.659E-03
11.370	4.800E+00	1.724E-02	1.029E+00	1.623E-03
11.375	4.795E+00	1.680E-02	1.029E+00	1.659E-03
11.380	4.806E+00	1.600E-02	1.042E+00	1.680E-03
11.385	4.819E+00	1.964E-02	1.050E+00	1.720E-03
11.390	4.823E+00	2.090E-02	1.054E+00	1.711E-03
11.395	4.829E+00	2.121E-02	1.053E+00	1.609E-03
11.400	4.825E+00	2.124E-02	1.051E+00	1.530E-03
11.405	4.830E+00	2.115E-02	1.052E+00	1.602E-03
11.410	4.831E+00	2.112E-02	1.052E+00	1.599E-03
11.415	4.835E+00	2.104E-02	1.051E+00	1.679E-03
11.420	4.833E+00	2.106E-02	1.044E+00	1.766E-03
11.425	4.838E+00	2.100E-02	1.046E+00	1.786E-03
11.430	4.850E+00	2.096E-02	1.047E+00	1.760E-03
11.435	4.858E+00	2.089E-02	1.048E+00	1.787E-03
11.440	4.855E+00	2.081E-02	1.047E+00	1.820E-03
11.445	4.861E+00	2.074E-02	1.046E+00	1.776E-03
11.450	4.862E+00	2.068E-02	1.044E+00	1.788E-03
11.455	4.870E+00	2.060E-02	1.042E+00	1.772E-03
11.460	4.874E+00	2.052E-02	1.040E+00	1.805E-03
11.465	4.882E+00	2.045E-02	1.038E+00	1.814E-03
11.470	4.888E+00	2.038E-02	1.036E+00	1.846E-03
11.475	4.895E+00	2.032E-02	1.034E+00	1.873E-03
11.480	4.892E+00	2.026E-02	1.033E+00	1.875E-03
11.485	4.897E+00	2.020E-02	1.031E+00	1.920E-03
11.490	4.897E+00	2.013E-02	1.030E+00	1.868E-03
11.495	4.904E+00	2.006E-02	1.033E+00	1.872E-03
11.500	4.902E+00	1.999E-02	1.032E+00	1.840E-03
11.505	4.917E+00	1.993E-02	1.031E+00	1.810E-03
11.510	4.919E+00	1.987E-02	1.031E+00	1.782E-03
11.515	4.926E+00	1.989E-02	1.032E+00	1.762E-03

TIME	CO	H2S	THC	SO2
11.520	4.922E+00	1.984E-02	1.032E+00	1.747E-03
11.525	4.927E+00	1.978E-02	1.031E+00	1.810E-03
11.530	4.914E+00	1.972E-02	1.032E+00	1.760E-03
11.535	4.910E+00	1.965E-02	1.031E+00	1.767E-03
11.540	4.904E+00	1.956E-02	1.031E+00	1.765E-03
11.545	4.901E+00	1.947E-02	1.033E+00	1.802E-03
11.550	4.904E+00	1.940E-02	1.035E+00	1.752E-03
11.555	4.907E+00	1.933E-02	1.037E+00	1.769E-03
11.560	4.909E+00	1.926E-02	1.036E+00	1.771E-03
11.565	4.913E+00	1.920E-02	1.036E+00	1.759E-03
11.570	4.916E+00	1.913E-02	1.035E+00	1.731E-03
11.575	4.920E+00	1.907E-02	1.033E+00	1.763E-03
11.580	4.920E+00	1.902E-02	1.033E+00	1.806E-03
11.585	4.924E+00	1.895E-02	1.033E+00	1.797E-03
11.590	4.929E+00	1.890E-02	1.033E+00	1.772E-03
11.595	4.931E+00	1.884E-02	1.033E+00	1.661E-03
12.000	4.928E+00	1.877E-02	1.031E+00	1.520E-03
12.005	4.920E+00	1.871E-02	1.029E+00	1.399E-03
12.010	4.914E+00	1.864E-02	1.027E+00	1.246E-03
12.015	4.915E+00	1.858E-02	1.027E+00	1.159E-03
12.020	4.904E+00	1.853E-02	1.026E+00	1.075E-03
12.025	4.898E+00	1.846E-02	1.027E+00	9.617E-04
12.030	4.891E+00	1.841E-02	1.025E+00	8.827E-04
12.035	4.886E+00	1.834E-02	1.024E+00	8.916E-04
12.040	4.887E+00	1.828E-02	1.023E+00	7.710E-04
12.045	4.889E+00	1.822E-02	1.024E+00	7.196E-04
12.050	4.885E+00	1.817E-02	1.025E+00	6.597E-04
12.055	4.886E+00	1.812E-02	1.026E+00	5.593E-04
12.060	4.881E+00	1.807E-02	1.027E+00	5.403E-04
12.065	4.878E+00	1.802E-02	1.028E+00	4.172E-04
12.070	4.878E+00	1.797E-02	1.029E+00	2.743E-04
12.075	4.869E+00	1.792E-02	1.027E+00	1.643E-04
12.080	4.850E+00	1.725E-02	1.013E+00	4.388E-05
12.085	4.829E+00	1.312E-02	1.006E+00	-1.097E-04
12.090	4.824E+00	1.153E-02	1.002E+00	-2.162E-04
12.095	4.811E+00	1.086E-02	1.002E+00	-1.571E-04
12.100	4.807E+00	1.050E-02	1.002E+00	-1.925E-04
12.105	4.798E+00	1.028E-02	1.002E+00	-2.708E-04
12.110	4.785E+00	1.007E-02	1.003E+00	-4.991E-04
12.115	4.778E+00	9.944E-03	1.004E+00	-5.581E-04
12.120	4.774E+00	9.739E-03	1.003E+00	-8.683E-04
12.125	4.772E+00	9.613E-03	1.002E+00	-1.061E-03
12.130	4.768E+00	9.491E-03	1.001E+00	-1.192E-03
12.135	4.767E+00	9.396E-03	1.000E+00	-1.316E-03
12.140	4.776E+00	9.324E-03	1.002E+00	-1.457E-03
12.145	4.780E+00	9.254E-03	1.014E+00	-1.544E-03
12.150	4.787E+00	9.188E-03	1.018E+00	-1.725E-03
12.155	4.790E+00	9.136E-03	1.021E+00	-1.870E-03
12.160	4.790E+00	9.084E-03	1.024E+00	-2.006E-03
12.165	4.792E+00	9.046E-03	1.026E+00	-2.139E-03
12.170	4.799E+00	9.008E-03	1.028E+00	-2.307E-03
12.175	4.719E+00	8.823E-03	1.012E+00	-2.352E-03

STATISTICS

POLLUTANT	NUMBER OF READINGS	ARITHMETIC MEAN	STANDARD DEVIATION	GEOMETRIC MEAN	GEOMETRIC STANDARD DEVIATION
CO	266	5.354E+00	4.609E-01	5.336E+00	1.091E+00
H2S	266	8.033E-02	4.878E-02	5.821E-02	2.522E+00
THC	266	1.278E+00	2.165E-01	1.260E+00	1.185E+00
SO2	266	1.231E-03	2.117E-03	2.305E-04	2.818E+01

SURVEY: FT FRANCES #10

DATE NOV 12 1974 SCAN TIME 30 SEC AVERAGING TIME 30 MIN

TIME	CO	H2S	THC	SO2
17.000	6.356E+00	8.455E-01	2.152E+00	4.635E-04
17.005	6.295E+00	8.199E-01	2.156E+00	2.393E-04
17.010	6.269E+00	8.084E-01	2.150E+00	8.427E-05
17.015	6.213E+00	7.792E-01	2.157E+00	-7.240E-05
17.020	6.091E+00	7.268E-01	2.143E+00	-1.848E-03
17.025	5.937E+00	6.622E-01	2.100E+00	-1.939E-03
17.030	5.854E+00	6.445E-01	2.077E+00	-2.030E-03
17.035	5.759E+00	6.187E-01	2.086E+00	-2.123E-03
17.040	5.759E+00	6.047E-01	2.133E+00	-2.191E-03
17.045	5.714E+00	5.854E-01	2.123E+00	-2.264E-03
17.050	5.591E+00	5.661E-01	2.055E+00	-2.333E-03
17.055	5.459E+00	5.540E-01	2.039E+00	-2.245E-03
17.060	5.323E+00	5.391E-01	1.965E+00	-2.159E-03
17.065	5.171E+00	5.086E-01	1.952E+00	-2.152E-03
17.070	5.154E+00	5.016E-01	1.948E+00	-2.156E-03
17.075	5.128E+00	5.007E-01	1.947E+00	-2.158E-03
17.080	5.316E+00	5.051E-01	1.966E+00	-2.224E-03
17.085	5.245E+00	5.434E-01	1.985E+00	-2.301E-03
17.090	5.231E+00	5.511E-01	1.954E+00	-2.390E-03
17.095	5.309E+00	5.600E-01	2.020E+00	-2.458E-03
17.100	5.435E+00	5.954E-01	2.077E+00	-2.484E-03
17.105	5.482E+00	6.198E-01	2.108E+00	-2.418E-03
17.110	5.549E+00	6.360E-01	2.115E+00	-2.265E-03
17.115	5.589E+00	6.471E-01	2.122E+00	-2.115E-03
17.120	5.403E+00	6.513E-01	2.112E+00	-1.970E-03
17.125	5.388E+00	6.537E-01	2.110E+00	-1.933E-03
17.130	5.328E+00	6.571E-01	2.102E+00	-1.877E-03
17.135	5.332E+00	6.570E-01	2.106E+00	3.379E-03
17.140	5.357E+00	6.656E-01	2.104E+00	3.328E-03
17.145	5.291E+00	6.700E-01	2.105E+00	3.289E-03
17.150	5.469E+00	6.899E-01	2.183E+00	3.237E-03
17.155	5.499E+00	7.144E-01	2.198E+00	3.168E-03
17.160	5.442E+00	7.293E-01	2.195E+00	3.094E-03
17.165	5.460E+00	7.484E-01	2.192E+00	3.030E-03
17.170	5.432E+00	7.525E-01	2.168E+00	2.972E-03
17.175	5.361E+00	7.385E-01	2.129E+00	2.923E-03
17.180	5.350E+00	7.297E-01	2.122E+00	2.889E-03
17.185	5.262E+00	7.294E-01	2.118E+00	2.805E-03
17.190	5.190E+00	7.262E-01	2.070E+00	2.745E-03
17.195	5.164E+00	7.148E-01	2.054E+00	2.676E-03
17.200	5.157E+00	7.086E-01	2.036E+00	2.604E-03
17.205	5.174E+00	7.065E-01	2.028E+00	2.560E-03
17.210	5.127E+00	7.038E-01	1.967E+00	2.521E-03
17.215	5.042E+00	6.984E-01	1.947E+00	2.469E-03
17.220	5.071E+00	6.926E-01	1.952E+00	2.435E-03
17.225	5.095E+00	6.940E-01	1.899E+00	2.412E-03
17.230	5.013E+00	6.683E-01	1.865E+00	2.427E-03
17.235	5.016E+00	6.524E-01	1.851E+00	2.405E-03
17.240	4.983E+00	6.395E-01	1.820E+00	2.396E-03
17.245	5.011E+00	6.341E-01	1.815E+00	2.411E-03
17.250	5.031E+00	6.339E-01	1.811E+00	2.458E-03
17.255	5.075E+00	6.295E-01	1.856E+00	2.489E-03
17.260	5.112E+00	6.351E-01	1.857E+00	2.507E-03
17.265	5.180E+00	6.254E-01	1.888E+00	2.526E-03
17.270	5.265E+00	6.327E-01	1.903E+00	2.526E-03
17.275	5.333E+00	6.430E-01	1.955E+00	2.465E-03
17.280	5.363E+00	6.398E-01	1.955E+00	2.356E-03
17.285	5.385E+00	6.376E-01	1.948E+00	2.261E-03
17.290	5.306E+00	6.339E-01	1.929E+00	2.170E-03
17.295	5.287E+00	6.288E-01	1.926E+00	2.071E-03
17.300	5.275E+00	6.307E-01	1.911E+00	1.976E-03
17.305	5.237E+00	6.299E-01	1.889E+00	1.857E-03
17.310	5.233E+00	6.251E-01	1.895E+00	1.779E-03
17.315	5.250E+00	6.173E-01	1.879E+00	1.684E-03
17.320	5.274E+00	6.167E-01	1.870E+00	1.590E-03
17.325	5.260E+00	6.141E-01	1.890E+00	1.741E-03
17.330	5.295E+00	6.140E-01	1.898E+00	1.712E-03
17.335	5.301E+00	6.176E-01	1.908E+00	1.668E-03
17.340	5.234E+00	6.075E-01	1.845E+00	1.602E-03
17.345	5.253E+00	6.006E-01	1.863E+00	1.534E-03

TIME	CO	H2S	THC	SO2
17.350	5.265E+00	6.051E-01	1.920E+00	1.480E-03
17.355	5.266E+00	6.089E-01	1.938E+00	1.494E-03
17.360	5.242E+00	6.057E-01	2.011E+00	1.495E-03
17.365	5.241E+00	6.061E-01	2.133E+00	1.492E-03
17.370	5.304E+00	6.065E-01	2.167E+00	1.511E-03
17.375	5.303E+00	6.100E-01	2.220E+00	1.514E-03
17.380	5.165E+00	6.063E-01	2.209E+00	1.523E-03
17.385	5.097E+00	5.740E-01	2.190E+00	1.531E-03
17.390	5.077E+00	5.670E-01	2.183E+00	1.525E-03
17.395	4.980E+00	5.562E-01	2.126E+00	1.498E-03
17.400	4.843E+00	5.215E-01	2.079E+00	1.505E-03
17.405	4.775E+00	5.009E-01	2.053E+00	1.504E-03
17.410	4.721E+00	4.889E-01	2.057E+00	1.536E-03
17.415	4.785E+00	4.817E-01	2.093E+00	1.545E-03
17.420	4.781E+00	4.788E-01	2.152E+00	1.595E-03
17.425	4.795E+00	4.806E-01	2.201E+00	1.646E-03
17.430	4.907E+00	4.779E-01	2.275E+00	1.656E-03
17.435	5.011E+00	4.999E-01	2.336E+00	-3.629E-03
17.440	4.999E+00	4.997E-01	2.339E+00	-1.751E-03
17.445	5.021E+00	4.994E-01	2.338E+00	-1.747E-03
17.450	4.892E+00	4.877E-01	2.281E+00	-1.717E-03
17.455	4.837E+00	4.719E-01	2.265E+00	-1.671E-03
17.460	4.907E+00	4.785E-01	2.259E+00	-1.643E-03
17.465	4.933E+00	4.697E-01	2.263E+00	-1.635E-03
17.470	4.995E+00	4.767E-01	2.286E+00	-1.610E-03
17.475	5.020E+00	4.912E-01	2.321E+00	-1.605E-03
17.480	5.064E+00	5.072E-01	2.339E+00	-1.612E-03
17.485	5.114E+00	5.119E-01	2.349E+00	-1.592E-03
17.490	5.167E+00	5.181E-01	2.365E+00	-1.585E-03
17.495	5.236E+00	5.294E-01	2.406E+00	-1.589E-03
17.500	5.232E+00	5.373E-01	2.404E+00	-1.573E-03
17.505	5.249E+00	5.414E-01	2.421E+00	-1.575E-03
17.510	5.348E+00	5.450E-01	2.473E+00	-1.597E-03
17.515	5.468E+00	5.664E-01	2.523E+00	-1.544E-03
17.520	5.525E+00	5.866E-01	2.570E+00	-1.520E-03
17.525	5.599E+00	6.036E-01	2.571E+00	-1.471E-03
17.530	5.577E+00	6.008E-01	2.574E+00	-1.477E-03
17.535	5.585E+00	6.099E-01	2.585E+00	-1.458E-03
17.540	5.593E+00	6.109E-01	2.584E+00	-1.427E-03
17.545	5.544E+00	6.131E-01	2.590E+00	-1.418E-03
17.550	5.517E+00	6.224E-01	2.611E+00	-1.452E-03
17.555	5.435E+00	6.305E-01	2.596E+00	-1.465E-03
17.560	5.373E+00	6.288E-01	2.580E+00	-1.458E-03
17.565	5.277E+00	6.265E-01	2.561E+00	-1.431E-03
17.570	5.200E+00	6.236E-01	2.559E+00	-1.410E-03
17.575	5.121E+00	6.155E-01	2.508E+00	-1.435E-03
17.580	5.035E+00	6.132E-01	2.500E+00	-1.398E-03
17.585	4.957E+00	6.082E-01	2.497E+00	-1.338E-03
17.590	4.880E+00	6.043E-01	2.487E+00	-1.326E-03
17.595	4.841E+00	6.024E-01	2.494E+00	-1.304E-03
18.000	4.810E+00	6.013E-01	2.496E+00	-1.278E-03
18.005	4.769E+00	6.003E-01	2.492E+00	-1.239E-03
18.010	4.716E+00	5.978E-01	2.462E+00	-1.196E-03
18.015	4.665E+00	5.956E-01	2.431E+00	-1.139E-03
18.020	4.603E+00	5.927E-01	2.387E+00	-1.091E-03
18.025	4.572E+00	5.910E-01	2.327E+00	-1.264E-03
18.030	4.493E+00	5.830E-01	2.275E+00	-1.273E-03
18.035	4.438E+00	5.764E-01	2.226E+00	-1.267E-03
18.040	4.415E+00	5.727E-01	2.222E+00	-1.287E-03
18.045	4.382E+00	5.682E-01	2.206E+00	-1.347E-03
18.050	4.377E+00	5.605E-01	2.159E+00	-1.373E-03
18.055	4.317E+00	5.559E-01	2.114E+00	-1.449E-03
18.060	4.287E+00	5.506E-01	2.053E+00	-1.497E-03
18.065	4.253E+00	5.479E-01	1.927E+00	-1.549E-03
18.070	4.156E+00	5.452E-01	1.898E+00	-1.637E-03
18.075	4.121E+00	5.403E-01	1.846E+00	-1.713E-03
18.080	4.048E+00	5.379E-01	1.822E+00	-1.682E-03
18.085	4.010E+00	5.309E-01	1.823E+00	-1.673E-03
18.090	3.989E+00	5.272E-01	1.820E+00	-1.667E-03
18.095	3.975E+00	5.242E-01	1.810E+00	-1.640E-03
18.100	3.957E+00	5.221E-01	1.806E+00	-1.597E-03
18.105	3.930E+00	5.178E-01	1.796E+00	-1.620E-03

TIME	CO	H2S	THC	SO2
18.110	3.879E+00	5.130E-01	1.775E+00	-1.629E-03
18.115	3.779E+00	5.083E-01	1.739E+00	-1.661E-03
18.120	3.758E+00	5.064E-01	1.684E+00	-1.740E-03
18.125	3.719E+00	5.015E-01	1.632E+00	7.805E-04
18.130	3.591E+00	5.006E-01	1.559E+00	7.758E-04
18.135	3.431E+00	4.702E-01	1.491E+00	7.598E-04
18.140	3.381E+00	4.600E-01	1.484E+00	-1.097E-03
18.145	3.333E+00	4.551E-01	1.477E+00	-1.067E-03
18.150	3.214E+00	4.455E-01	1.447E+00	-1.037E-03
18.155	3.166E+00	4.311E-01	1.422E+00	-1.034E-03
18.160	3.013E+00	4.061E-01	1.397E+00	-1.016E-03
18.165	2.934E+00	3.915E-01	1.392E+00	-9.940E-04
18.170	2.840E+00	3.762E-01	1.362E+00	-9.315E-04
18.175	2.795E+00	3.586E-01	1.326E+00	-7.880E-04
18.180	2.724E+00	3.407E-01	1.311E+00	-6.385E-04
18.185	2.639E+00	3.334E-01	1.291E+00	-4.978E-04
18.190	2.559E+00	3.223E-01	1.276E+00	-4.047E-04
18.195	2.452E+00	3.090E-01	1.231E+00	-2.981E-04
18.200	2.410E+00	2.963E-01	1.230E+00	-1.695E-04
18.205	2.352E+00	2.896E-01	1.211E+00	-1.873E-06
18.210	2.219E+00	2.822E-01	1.157E+00	1.648E-04
18.215	2.069E+00	2.564E-01	1.093E+00	3.389E-04
18.220	1.952E+00	2.335E-01	1.033E+00	5.098E-04
18.225	1.811E+00	2.083E-01	1.017E+00	6.329E-04
18.230	1.779E+00	1.997E-01	1.005E+00	7.981E-04
18.235	1.728E+00	1.863E-01	9.872E-01	9.711E-04
18.240	1.697E+00	1.803E-01	9.776E-01	1.137E-03
18.245	1.677E+00	1.736E-01	9.653E-01	1.399E-03
18.250	1.652E+00	1.584E-01	9.403E-01	1.691E-03
18.255	1.610E+00	1.466E-01	9.013E-01	1.972E-03
18.260	1.583E+00	1.321E-01	8.900E-01	2.213E-03
18.265	1.569E+00	1.249E-01	8.663E-01	2.443E-03
18.270	1.540E+00	1.132E-01	8.464E-01	2.713E-03
18.275	1.525E+00	1.034E-01	8.319E-01	2.979E-03
18.280	1.514E+00	9.767E-02	8.236E-01	3.206E-03
18.285	1.509E+00	9.199E-02	8.087E-01	3.414E-03
18.290	1.498E+00	8.759E-02	7.914E-01	3.654E-03
18.295	1.492E+00	8.147E-02	7.767E-01	3.874E-03
18.300	1.493E+00	7.680E-02	7.739E-01	4.100E-03
18.305	1.496E+00	7.302E-02	7.666E-01	4.371E-03
18.310	1.499E+00	7.023E-02	7.635E-01	4.607E-03
18.315	1.504E+00	6.791E-02	7.545E-01	4.802E-03
18.320	1.499E+00	6.563E-02	7.444E-01	4.990E-03
18.325	1.489E+00	6.289E-02	7.360E-01	5.182E-03
18.330	1.474E+00	6.040E-02	7.218E-01	5.370E-03
18.335	1.452E+00	5.797E-02	7.069E-01	5.570E-03
18.340	1.434E+00	5.462E-02	6.872E-01	5.815E-03
18.345	1.384E+00	5.121E-02	6.769E-01	6.105E-03
18.350	1.341E+00	4.944E-02	6.597E-01	6.297E-03
18.355	1.329E+00	4.713E-02	6.511E-01	6.568E-03
18.360	1.331E+00	4.597E-02	6.366E-01	6.826E-03
18.365	1.319E+00	4.495E-02	6.267E-01	7.110E-03
18.370	1.305E+00	4.367E-02	6.160E-01	7.417E-03
18.375	1.288E+00	4.207E-02	6.025E-01	7.711E-03
18.380	1.271E+00	4.074E-02	5.900E-01	7.861E-03
18.385	1.250E+00	3.930E-02	5.734E-01	8.053E-03
18.390	1.222E+00	3.754E-02	5.582E-01	8.293E-03
18.395	1.201E+00	3.597E-02	5.452E-01	1.111E-02
18.400	1.185E+00	3.434E-02	5.292E-01	1.136E-02
18.405	1.163E+00	3.249E-02	5.162E-01	1.166E-02
18.410	1.156E+00	3.091E-02	5.066E-01	1.193E-02
18.415	1.095E+00	2.957E-02	4.847E-01	1.225E-02
18.420	1.073E+00	2.836E-02	4.725E-01	1.257E-02
18.425	1.061E+00	2.758E-02	4.685E-01	1.029E-02
18.430	1.045E+00	2.662E-02	4.652E-01	1.059E-02
18.435	1.023E+00	2.594E-02	4.680E-01	1.088E-02
18.440	1.010E+00	2.570E-02	4.584E-01	1.116E-02
18.445	9.967E-01	2.442E-02	4.467E-01	1.142E-02
18.450	9.792E-01	2.342E-02	4.393E-01	1.165E-02
18.455	9.696E-01	2.227E-02	4.300E-01	1.193E-02
18.460	9.586E-01	2.112E-02	4.248E-01	1.226E-02
18.465	9.445E-01	1.993E-02	4.080E-01	1.254E-02

TIME	CO	H2S	THC	SO2
18.470	9.260E-01	1.801E-02	3.994E-01	1.279E-02
18.475	9.076E-01	1.615E-02	3.888E-01	1.298E-02
18.480	8.995E-01	1.372E-02	3.783E-01	1.316E-02
18.485	8.934E-01	1.178E-02	3.726E-01	1.334E-02
18.490	8.858E-01	1.133E-02	3.753E-01	1.355E-02
18.495	8.826E-01	1.063E-02	3.802E-01	1.375E-02
18.500	8.780E-01	9.641E-03	3.737E-01	1.396E-02
18.505	8.803E-01	8.032E-03	3.782E-01	1.416E-02
18.510	8.732E-01	6.508E-03	3.779E-01	1.439E-02
18.515	8.527E-01	4.868E-03	3.771E-01	1.456E-02
18.520	8.330E-01	3.096E-03	3.739E-01	1.475E-02
18.525	8.205E-01	1.964E-03	3.734E-01	1.496E-02
18.530	8.068E-01	1.694E-03	3.782E-01	1.514E-02
18.535	7.925E-01	1.156E-03	3.776E-01	1.533E-02
18.540	7.764E-01	1.058E-03	3.775E-01	1.553E-02
18.545	8.007E-01	1.208E-03	3.831E-01	1.564E-02
18.550	7.840E-01	1.483E-03	3.862E-01	1.572E-02
18.555	7.719E-01	1.503E-03	3.941E-01	1.579E-02
18.560	7.546E-01	1.872E-03	4.021E-01	1.590E-02
18.565	7.361E-01	2.013E-03	4.053E-01	1.600E-02
18.570	7.206E-01	2.487E-03	4.157E-01	1.614E-02
18.575	6.851E-01	3.496E-03	4.322E-01	1.625E-02
18.580	6.732E-01	4.452E-03	4.407E-01	1.638E-02
18.585	6.622E-01	5.290E-03	4.403E-01	1.649E-02
18.590	6.562E-01	5.579E-03	4.526E-01	1.721E-02
18.595	6.446E-01	5.724E-03	4.579E-01	1.738E-02
19.000	6.258E-01	6.469E-03	4.596E-01	1.753E-02
19.005	6.197E-01	6.779E-03	4.644E-01	1.765E-02
19.010	6.087E-01	7.469E-03	4.697E-01	1.775E-02
19.015	5.922E-01	7.652E-03	4.717E-01	1.787E-02
19.020	5.825E-01	7.703E-03	4.742E-01	1.802E-02
19.025	6.136E-01	8.132E-03	4.844E-01	1.814E-02
19.030	6.111E-01	8.802E-03	4.937E-01	1.831E-02
19.035	5.254E-01	9.511E-03	5.000E-01	1.844E-02
19.040	5.478E-01	9.993E-03	4.986E-01	1.946E-02
19.045	5.435E-01	9.824E-03	4.966E-01	1.957E-02
19.050	5.501E-01	9.510E-03	5.044E-01	1.973E-02
19.055	4.072E-01	9.517E-03	5.066E-01	1.981E-02
19.060	3.917E-01	9.012E-03	5.127E-01	1.989E-02
19.065	3.906E-01	8.970E-03	5.141E-01	1.997E-02
19.070	3.937E-01	8.653E-03	5.165E-01	2.005E-02
19.075	4.640E-01	8.873E-03	5.298E-01	2.014E-02
19.080	4.607E-01	9.192E-03	6.167E-01	2.026E-02
19.085	4.664E-01	9.395E-03	6.202E-01	2.038E-02
19.090	4.673E-01	9.354E-03	6.306E-01	2.047E-02
19.095	4.746E-01	9.493E-03	6.379E-01	1.797E-02
19.100	4.792E-01	9.705E-03	6.392E-01	1.801E-02
19.105	4.796E-01	9.599E-03	6.420E-01	1.807E-02
19.110	4.882E-01	9.997E-03	6.615E-01	1.811E-02
19.115	4.987E-01	1.033E-02	6.662E-01	1.816E-02
19.120	5.047E-01	1.066E-02	6.753E-01	1.822E-02
19.125	5.107E-01	1.089E-02	6.882E-01	1.825E-02
19.130	5.109E-01	1.040E-02	6.863E-01	1.828E-02
19.135	5.239E-01	1.004E-02	6.765E-01	1.839E-02
19.140	4.981E-01	9.290E-03	6.791E-01	1.847E-02
19.145	4.865E-01	9.144E-03	6.847E-01	1.856E-02
19.150	4.837E-01	9.076E-03	6.889E-01	1.865E-02
19.155	4.773E-01	8.991E-03	6.931E-01	1.871E-02
19.160	5.214E-01	8.933E-03	7.192E-01	1.872E-02
19.165	5.482E-01	1.291E-02	7.549E-01	1.879E-02
19.170	4.465E-01	1.494E-02	7.655E-01	1.882E-02
19.175	4.617E-01	1.613E-02	7.956E-01	1.884E-02
19.180	4.701E-01	1.966E-02	8.453E-01	1.886E-02
19.185	4.892E-01	2.266E-02	8.586E-01	1.889E-02
19.190	5.052E-01	2.749E-02	8.905E-01	1.893E-02
19.195	6.606E-01	3.011E-02	9.096E-01	1.899E-02
19.200	7.215E-01	3.418E-02	9.706E-01	1.900E-02
19.205	9.764E-01	7.666E-02	1.076E+00	1.901E-02
19.210	1.007E+00	9.457E-02	1.093E+00	1.903E-02
19.215	1.028E+00	1.002E-01	1.097E+00	1.905E-02
19.220	1.087E+00	1.043E-01	1.119E+00	1.907E-02
19.225	1.152E+00	1.092E-01	1.151E+00	1.909E-02

TIME	CO	H2S	THC	SO2
19.230	1.293E+00	1.192E-01	1.193E+00	1.912E-02
19.235	1.398E+00	1.335E-01	1.218E+00	1.914E-02
19.240	1.484E+00	1.561E-01	1.255E+00	1.916E-02
19.245	1.545E+00	1.699E-01	1.309E+00	1.919E-02
19.250	1.671E+00	1.888E-01	1.367E+00	1.923E-02
19.255	1.745E+00	1.968E-01	1.372E+00	1.929E-02
19.260	1.769E+00	2.048E-01	1.367E+00	1.934E-02
19.265	1.780E+00	2.081E-01	1.374E+00	1.938E-02
19.270	1.797E+00	2.140E-01	1.372E+00	1.938E-02
19.275	1.825E+00	2.164E-01	1.370E+00	1.940E-02
19.280	1.846E+00	2.194E-01	1.367E+00	1.943E-02
19.285	1.871E+00	2.216E-01	1.371E+00	1.953E-02
19.290	1.800E+00	2.290E-01	1.369E+00	2.014E-02
19.295	1.826E+00	2.333E-01	1.389E+00	2.014E-02
19.300	1.849E+00	2.392E-01	1.427E+00	2.014E-02
19.305	1.882E+00	2.416E-01	1.455E+00	2.013E-02
19.310	1.901E+00	2.539E-01	1.454E+00	2.015E-02
19.315	1.911E+00	2.561E-01	1.460E+00	2.018E-02
19.320	1.933E+00	2.598E-01	1.470E+00	2.020E-02
19.325	1.906E+00	2.638E-01	1.476E+00	2.022E-02
19.330	1.928E+00	2.657E-01	1.472E+00	2.151E-02
19.335	2.023E+00	2.679E-01	1.471E+00	2.153E-02
19.340	2.003E+00	2.692E-01	1.471E+00	2.064E-02
19.345	2.031E+00	2.707E-01	1.472E+00	2.066E-02
19.350	2.031E+00	2.719E-01	1.480E+00	2.068E-02
19.355	2.268E+00	2.879E-01	1.491E+00	2.070E-02
19.360	2.354E+00	2.923E-01	1.527E+00	2.073E-02
19.365	2.369E+00	2.982E-01	1.541E+00	2.075E-02
19.370	2.373E+00	3.017E-01	1.538E+00	2.077E-02
19.375	2.313E+00	3.047E-01	1.532E+00	2.080E-02
19.380	2.330E+00	3.061E-01	1.453E+00	2.304E-02
19.385	2.329E+00	3.075E-01	1.448E+00	2.306E-02
19.390	2.342E+00	3.086E-01	1.439E+00	2.308E-02
19.395	2.364E+00	3.096E-01	1.437E+00	2.311E-02
19.400	2.369E+00	3.114E-01	1.443E+00	2.313E-02
19.405	2.388E+00	3.133E-01	1.457E+00	2.317E-02
19.410	2.434E+00	3.153E-01	1.441E+00	2.322E-02
19.415	2.533E+00	3.168E-01	1.465E+00	2.324E-02
19.420	2.553E+00	3.208E-01	1.464E+00	2.328E-02
19.425	2.568E+00	3.223E-01	1.451E+00	2.331E-02
19.430	2.613E+00	3.246E-01	1.459E+00	2.334E-02
19.435	2.661E+00	3.268E-01	1.484E+00	2.323E-02
19.440	2.733E+00	3.418E-01	1.495E+00	2.327E-02
19.445	2.772E+00	3.482E-01	1.506E+00	2.325E-02
19.450	2.818E+00	3.515E-01	1.509E+00	2.322E-02
19.455	2.825E+00	3.538E-01	1.509E+00	2.322E-02
19.460	2.832E+00	3.560E-01	1.489E+00	2.321E-02
19.465	2.856E+00	3.617E-01	1.481E+00	2.322E-02
19.470	2.989E+00	3.655E-01	1.481E+00	2.326E-02
19.475	2.993E+00	3.665E-01	1.453E+00	2.328E-02
19.480	2.998E+00	3.646E-01	1.405E+00	2.331E-02
19.485	2.989E+00	3.638E-01	1.392E+00	2.331E-02
19.490	2.984E+00	3.604E-01	1.358E+00	2.331E-02
19.495	2.834E+00	3.596E-01	1.328E+00	2.331E-02
19.500	2.786E+00	3.573E-01	1.268E+00	2.331E-02
19.505	2.576E+00	3.161E-01	1.172E+00	2.331E-02
19.510	2.557E+00	3.027E-01	1.157E+00	2.329E-02
19.515	2.590E+00	2.989E-01	1.157E+00	2.298E-02
19.520	2.556E+00	2.976E-01	1.141E+00	2.266E-02
19.525	2.530E+00	2.984E-01	1.126E+00	2.235E-02
19.530	2.465E+00	2.912E-01	1.109E+00	2.204E-02
19.535	2.420E+00	2.839E-01	1.091E+00	2.173E-02
19.540	2.357E+00	2.638E-01	1.093E+00	2.142E-02
19.545	2.310E+00	2.568E-01	1.058E+00	2.110E-02
19.550	2.251E+00	2.486E-01	1.017E+00	2.079E-02
19.555	2.193E+00	2.436E-01	1.007E+00	2.047E-02
19.560	2.188E+00	2.381E-01	1.012E+00	2.016E-02
19.565	2.200E+00	2.364E-01	1.018E+00	1.985E-02
19.570	2.206E+00	3.315E-01	1.017E+00	1.954E-02
19.575	2.255E+00	2.294E-01	1.009E+00	1.923E-02
19.580	2.290E+00	2.266E-01	1.015E+00	1.916E-02
19.585	2.317E+00	2.249E-01	1.017E+00	1.907E-02

TIME	CO	H2S	THC	SO2
19.590	2.379E+00	2.169E-01	1.001E+00	1.759E-02

STATISTICS

POLLUTANT	NUMBER OF READINGS	ARITHMETIC MEAN	STANDARD DEVIATION	GEOMETRIC MEAN	GEOMETRIC STANDARD DEVIATION
CO	359	2.999E+00	1.882E+00	2.279E+00	2.266E+00
H2S	359	3.325E-01	3.518E-01	1.541E-01	5.495E+00
THC	359	1.417E+00	6.828E-01	1.220E+00	1.803E+00
SO2	359	8.708E-03	9.451E-03	7.222E-04	6.062E+01

SURVEY: FT FRANCES #11

DATE NOV 12 1974 SCAN TIME 30 SEC AVERAGING TIME 30 MIN

TIME	CO	H2S	THC	SO2
20.400	4.297E+00	4.794E-01	1.922E+00	1.086E-02
20.405	4.233E+00	4.657E-01	1.883E+00	1.069E-02
20.410	4.249E+00	4.528E-01	1.901E+00	1.051E-02
20.415	4.341E+00	4.586E-01	1.933E+00	1.033E-02
20.420	4.435E+00	4.640E-01	1.964E+00	7.086E-03
20.425	4.488E+00	4.700E-01	1.976E+00	7.043E-03
20.430	4.519E+00	4.749E-01	1.997E+00	7.022E-03
20.435	4.553E+00	4.803E-01	2.020E+00	6.978E-03
20.440	4.615E+00	4.868E-01	2.043E+00	6.917E-03
20.445	4.630E+00	4.941E-01	2.039E+00	6.851E-03
20.450	4.657E+00	4.835E-01	2.068E+00	6.780E-03
20.455	4.724E+00	4.812E-01	2.094E+00	6.713E-03
20.460	4.748E+00	4.874E-01	2.107E+00	6.622E-03
20.465	4.758E+00	4.857E-01	2.114E+00	6.622E-03
20.470	4.731E+00	4.873E-01	2.111E+00	7.555E-03
20.475	4.734E+00	4.874E-01	2.111E+00	7.555E-03
20.480	4.724E+00	4.879E-01	2.113E+00	7.578E-03
20.485	4.683E+00	4.805E-01	2.094E+00	7.600E-03
20.490	4.637E+00	4.623E-01	2.076E+00	7.623E-03
20.495	4.609E+00	4.506E-01	2.065E+00	7.646E-03
20.500	4.625E+00	4.436E-01	2.052E+00	7.646E-03
20.505	4.544E+00	4.365E-01	2.007E+00	7.647E-03
20.510	4.457E+00	4.160E-01	1.950E+00	7.670E-03
20.515	4.311E+00	3.871E-01	1.887E+00	7.692E-03
20.520	4.237E+00	3.577E-01	1.853E+00	7.715E-03
20.525	4.241E+00	3.473E-01	1.838E+00	7.714E-03
20.530	4.203E+00	3.358E-01	1.794E+00	7.691E-03
20.535	4.121E+00	3.132E-01	1.766E+00	7.693E-03
20.540	4.078E+00	2.979E-01	1.737E+00	7.896E-03
20.545	4.110E+00	2.836E-01	1.715E+00	8.166E-03
20.550	4.035E+00	2.646E-01	1.669E+00	8.392E-03
20.555	4.008E+00	2.457E-01	1.638E+00	8.551E-03
20.560	4.000E+00	2.399E-01	1.577E+00	8.687E-03
20.565	4.002E+00	2.375E-01	1.520E+00	8.801E-03
20.570	4.011E+00	2.353E-01	1.434E+00	8.914E-03
20.575	3.852E+00	2.325E-01	1.381E+00	8.734E-03
20.580	3.675E+00	2.300E-01	1.316E+00	8.703E-03
20.585	3.679E+00	2.280E-01	1.308E+00	8.813E-03
20.590	3.693E+00	2.263E-01	1.296E+00	8.809E-03
20.595	3.688E+00	2.250E-01	1.271E+00	8.807E-03
21.000	3.702E+00	2.242E-01	1.264E+00	8.805E-03
21.005	3.781E+00	2.232E-01	1.218E+00	8.800E-03
21.010	3.785E+00	2.222E-01	1.176E+00	8.663E-03
21.015	3.791E+00	2.212E-01	1.151E+00	8.393E-03
21.020	3.778E+00	2.202E-01	1.126E+00	8.127E-03
21.025	3.790E+00	2.192E-01	1.118E+00	8.057E-03
21.030	3.808E+00	2.185E-01	1.116E+00	8.838E-03
21.035	3.810E+00	2.176E-01	1.100E+00	8.705E-03
21.040	3.810E+00	2.167E-01	1.090E+00	8.550E-03
21.045	3.869E+00	2.158E-01	1.096E+00	8.372E-03
21.050	3.866E+00	2.150E-01	1.081E+00	8.201E-03
21.055	4.016E+00	2.143E-01	1.082E+00	8.043E-03
21.060	4.025E+00	2.137E-01	1.078E+00	7.884E-03
21.065	4.030E+00	2.130E-01	1.073E+00	7.745E-03
21.070	4.039E+00	2.124E-01	1.070E+00	7.588E-03
21.075	4.071E+00	2.122E-01	1.070E+00	7.469E-03
21.080	4.088E+00	2.123E-01	1.068E+00	7.355E-03
21.085	4.080E+00	2.124E-01	1.055E+00	7.213E-03
21.090	4.083E+00	2.126E-01	1.031E+00	5.594E-03
21.095	4.045E+00	2.148E-01	1.012E+00	5.556E-03
21.100	4.059E+00	2.176E-01	1.011E+00	4.568E-03
21.105	4.070E+00	2.197E-01	1.009E+00	4.524E-03
21.110	4.060E+00	2.236E-01	9.913E-01	4.480E-03
21.115	3.994E+00	2.213E-01	9.778E-01	4.436E-03
21.120	3.954E+00	2.223E-01	9.653E-01	4.389E-03
21.125	3.943E+00	2.308E-01	9.748E-01	4.341E-03
21.130	3.979E+00	2.355E-01	9.842E-01	4.294E-03
21.135	3.952E+00	2.366E-01	9.677E-01	4.272E-03
21.140	3.950E+00	2.351E-01	9.780E-01	4.245E-03
21.145	3.981E+00	2.383E-01	9.814E-01	4.217E-03

TIME	CO	H2S	THC	SO2
21.150	3.981E+00	2.396E-01	9.610E-01	4.192E-03
21.155	3.922E+00	2.384E-01	9.451E-01	4.169E-03
21.160	3.862E+00	2.305E-01	9.231E-01	4.119E-03
21.165	3.861E+00	2.212E-01	9.027E-01	5.204E-03
21.170	3.896E+00	2.151E-01	9.062E-01	4.219E-03
21.175	3.896E+00	2.136E-01	9.081E-01	4.168E-03
21.180	3.915E+00	2.131E-01	9.107E-01	4.103E-03
21.185	3.928E+00	2.150E-01	9.142E-01	4.036E-03
21.190	3.936E+00	2.165E-01	9.218E-01	3.938E-03
21.195	3.947E+00	2.178E-01	9.316E-01	3.819E-03
21.200	3.925E+00	2.186E-01	9.359E-01	3.708E-03
21.205	3.943E+00	2.201E-01	9.493E-01	3.780E-03
21.210	3.982E+00	2.326E-01	9.841E-01	3.848E-03
21.215	4.007E+00	2.429E-01	9.984E-01	3.939E-03
21.220	4.042E+00	2.485E-01	1.019E+00	4.040E-03
21.225	4.105E+00	2.589E-01	1.059E+00	4.138E-03
21.230	4.140E+00	2.784E-01	1.090E+00	4.227E-03
21.235	4.218E+00	2.961E-01	1.121E+00	4.316E-03
21.240	4.240E+00	3.153E-01	1.152E+00	4.184E-03
21.245	4.134E+00	3.250E-01	1.157E+00	4.004E-03
21.250	4.133E+00	3.297E-01	1.162E+00	3.860E-03
21.255	4.146E+00	3.331E-01	1.170E+00	3.793E-03
21.260	4.164E+00	3.385E-01	1.183E+00	4.453E-03
21.265	4.158E+00	3.442E-01	1.186E+00	4.434E-03
21.270	4.172E+00	3.509E-01	1.209E+00	4.414E-03
21.275	4.183E+00	3.587E-01	1.224E+00	4.667E-03
21.280	4.185E+00	3.632E-01	1.235E+00	4.792E-03
21.285	4.195E+00	3.677E-01	1.251E+00	4.795E-03
21.290	4.206E+00	3.744E-01	1.273E+00	4.880E-03
21.295	4.262E+00	3.920E-01	1.293E+00	4.977E-03
21.300	4.282E+00	4.072E-01	1.311E+00	5.068E-03
21.305	4.224E+00	4.190E-01	1.321E+00	5.167E-03
21.310	4.232E+00	4.246E-01	1.326E+00	5.267E-03
21.315	4.224E+00	4.282E-01	1.326E+00	5.378E-03
21.320	4.227E+00	4.309E-01	1.335E+00	5.479E-03
21.325	4.221E+00	4.337E-01	1.340E+00	5.459E-03
21.330	4.229E+00	4.359E-01	1.342E+00	4.588E-03
21.335	4.235E+00	4.379E-01	1.344E+00	4.674E-03
21.340	4.242E+00	4.396E-01	1.348E+00	4.778E-03
21.345	4.203E+00	4.424E-01	1.357E+00	4.912E-03
21.350	4.202E+00	4.443E-01	1.360E+00	5.040E-03
21.355	4.057E+00	4.461E-01	1.359E+00	5.140E-03
21.360	4.054E+00	4.475E-01	1.355E+00	5.256E-03
21.365	4.054E+00	4.488E-01	1.358E+00	5.373E-03
21.370	4.059E+00	4.501E-01	1.359E+00	5.489E-03
21.375	4.048E+00	4.508E-01	1.359E+00	5.637E-03
21.380	4.033E+00	4.512E-01	1.358E+00	5.785E-03
21.385	4.033E+00	4.516E-01	1.357E+00	5.944E-03
21.390	3.985E+00	4.493E-01	1.343E+00	5.945E-03

STATISTICS

POLLUTANT	NUMBER OF READINGS	ARITHMETIC MEAN	STANDARD DEVIATION	GEOMETRIC MEAN	GEOMETRIC STANDARD DEVIATION
CO	119	4.131E+00	2.647E-01	4.123E+00	1.063E+00
H2S	119	3.266E-01	1.063E-01	3.099E-01	1.386E+00
THC	119	1.369E+00	3.909E-01	1.319E+00	1.311E+00
SO2	119	6.308E-03	1.902E-03	6.029E-03	1.359E+00

SURVEY: FT FRANCES #12

DATE NOV 13,1974 SCAN TIME 30 SEC AVERAGING TIME 30 MIN

TIME	CO	H2S	THC	SO2
10.100	4.633E+00	6.538E-01	2.824E+00	5.997E-03
10.105	4.616E+00	6.435E-01	2.822E+00	5.898E-03
10.110	4.577E+00	6.358E-01	2.821E+00	5.800E-03
10.115	4.545E+00	6.290E-01	2.854E+00	5.710E-03
10.120	4.506E+00	6.229E-01	2.913E+00	5.646E-03
10.125	4.492E+00	6.151E-01	2.932E+00	5.509E-03
10.130	4.514E+00	6.122E-01	2.935E+00	5.414E-03
10.135	4.511E+00	6.142E-01	2.953E+00	5.298E-03
10.140	4.464E+00	6.089E-01	2.974E+00	5.287E-03
10.145	4.438E+00	5.978E-01	3.035E+00	5.373E-03
10.150	4.465E+00	5.917E-01	3.072E+00	5.446E-03
10.155	4.482E+00	6.016E-01	3.115E+00	5.454E-03
10.160	4.502E+00	6.081E-01	3.165E+00	5.453E-03
10.165	4.453E+00	6.091E-01	3.168E+00	5.379E-03
10.170	4.453E+00	6.003E-01	3.199E+00	5.197E-03
10.175	4.503E+00	6.149E-01	3.199E+00	5.320E-03
10.180	4.585E+00	6.373E-01	3.207E+00	5.465E-03
10.185	4.642E+00	6.554E-01	3.215E+00	5.637E-03
10.190	4.645E+00	6.623E-01	3.239E+00	5.900E-03
10.195	4.646E+00	6.739E-01	3.239E+00	6.126E-03
10.200	4.653E+00	6.698E-01	3.248E+00	3.969E-03
10.205	4.691E+00	6.691E-01	3.274E+00	3.979E-03
10.210	4.692E+00	6.773E-01	3.358E+00	3.967E-03
10.215	4.680E+00	6.670E-01	3.380E+00	3.959E-03
10.220	4.693E+00	6.689E-01	3.432E+00	3.954E-03
10.225	4.705E+00	6.675E-01	3.487E+00	3.978E-03
10.230	4.686E+00	6.546E-01	3.525E+00	3.956E-03
10.235	4.665E+00	6.476E-01	3.594E+00	3.892E-03
10.240	4.629E+00	6.388E-01	3.653E+00	3.861E-03
10.245	4.671E+00	6.433E-01	3.671E+00	3.804E-03
10.250	4.696E+00	6.520E-01	3.708E+00	3.766E-03
10.255	4.697E+00	6.562E-01	3.728E+00	3.745E-03
10.260	4.732E+00	6.664E-01	3.757E+00	3.704E-03
10.265	4.757E+00	6.730E-01	3.769E+00	3.749E-03
10.270	4.807E+00	6.842E-01	3.829E+00	3.782E-03
10.275	4.900E+00	7.092E-01	3.855E+00	3.904E-03
10.280	4.980E+00	7.316E-01	3.878E+00	3.933E-03
10.285	5.001E+00	7.530E-01	3.888E+00	3.955E-03
10.290	5.032E+00	7.614E-01	3.904E+00	4.095E-03
10.295	5.092E+00	7.747E-01	3.921E+00	4.201E-03
10.300	5.134E+00	7.876E-01	3.929E+00	4.369E-03
10.305	5.179E+00	7.965E-01	3.929E+00	4.502E-03
10.310	5.210E+00	8.070E-01	3.914E+00	4.636E-03
10.315	5.287E+00	8.141E-01	3.895E+00	4.766E-03
10.320	5.290E+00	8.232E-01	3.940E+00	4.855E-03
10.325	5.331E+00	8.295E-01	4.025E+00	4.947E-03
10.330	5.403E+00	8.409E-01	4.078E+00	4.468E-03
10.335	5.374E+00	8.509E-01	4.137E+00	4.559E-03
10.340	5.373E+00	8.430E-01	4.195E+00	4.653E-03
10.345	5.402E+00	8.492E-01	4.232E+00	4.796E-03
10.350	5.425E+00	8.507E-01	4.257E+00	4.844E-03
10.355	5.474E+00	8.568E-01	4.265E+00	4.980E-03
10.360	5.545E+00	8.540E-01	4.336E+00	5.081E-03
10.365	5.573E+00	8.578E-01	4.399E+00	5.210E-03
10.370	5.425E+00	8.591E-01	4.416E+00	5.260E-03
10.375	5.474E+00	8.635E-01	4.422E+00	5.251E-03
10.380	5.509E+00	8.800E-01	4.425E+00	5.262E-03
10.385	5.531E+00	8.935E-01	4.397E+00	5.285E-03
10.390	5.629E+00	9.072E-01	4.396E+00	5.314E-03
10.395	5.707E+00	9.248E-01	4.445E+00	5.214E-03
10.400	5.761E+00	9.412E-01	4.506E+00	5.119E-03
10.405	5.840E+00	9.584E-01	4.540E+00	5.103E-03
10.410	5.937E+00	9.700E-01	4.586E+00	5.162E-03
10.415	5.983E+00	9.660E-01	4.564E+00	5.203E-03
10.420	5.984E+00	9.899E-01	4.520E+00	5.334E-03
10.425	5.975E+00	9.906E-01	4.522E+00	5.415E-03
10.430	5.942E+00	9.907E-01	4.520E+00	5.475E-03
10.435	5.918E+00	9.856E-01	4.574E+00	5.521E-03
10.440	5.902E+00	9.846E-01	4.598E+00	5.508E-03
10.445	5.908E+00	9.854E-01	4.575E+00	5.477E-03

TIME	CO	H2S	THC	SO2
10.450	5.967E+00	9.963E-01	4.580E+00	5.425E-03
10.455	5.932E+00	9.950E-01	4.623E+00	5.425E-03
10.460	5.901E+00	9.887E-01	4.634E+00	5.508E-03
10.465	5.883E+00	9.834E-01	4.664E+00	5.629E-03
10.470	5.877E+00	9.828E-01	4.699E+00	5.796E-03
10.475	5.874E+00	9.619E-01	4.706E+00	5.885E-03
10.480	5.908E+00	9.538E-01	4.710E+00	6.035E-03
10.485	5.908E+00	9.627E-01	4.709E+00	6.146E-03
10.490	5.944E+00	9.700E-01	4.716E+00	6.214E-03
10.495	5.849E+00	9.609E-01	4.725E+00	6.278E-03
10.500	5.742E+00	9.435E-01	4.790E+00	6.395E-03
10.505	5.659E+00	9.264E-01	4.828E+00	6.428E-03
10.510	5.749E+00	9.218E-01	4.778E+00	6.503E-03
10.515	5.776E+00	9.404E-01	4.789E+00	6.519E-03
10.520	5.802E+00	9.405E-01	4.765E+00	6.546E-03
10.525	5.795E+00	9.462E-01	4.750E+00	6.622E-03
10.530	5.859E+00	9.566E-01	4.722E+00	6.625E-03
10.535	5.932E+00	9.660E-01	4.689E+00	6.680E-03
10.540	5.973E+00	9.807E-01	4.660E+00	6.796E-03
10.545	5.964E+00	9.854E-01	4.645E+00	6.819E-03
10.550	5.980E+00	9.836E-01	4.637E+00	6.968E-03
10.555	5.971E+00	9.824E-01	4.640E+00	7.064E-03
10.560	5.979E+00	9.749E-01	4.682E+00	7.118E-03
10.565	5.927E+00	9.717E-01	4.704E+00	7.157E-03
10.570	5.856E+00	9.564E-01	4.725E+00	7.272E-03
10.575	5.744E+00	9.293E-01	4.730E+00	7.352E-03
10.580	5.685E+00	9.069E-01	4.749E+00	7.343E-03
10.585	5.660E+00	8.931E-01	4.746E+00	7.390E-03
10.590	5.628E+00	8.863E-01	4.750E+00	7.414E-03
10.595	5.601E+00	8.843E-01	4.781E+00	7.455E-03
11.000	5.539E+00	8.766E-01	4.777E+00	1.184E-02
11.005	5.462E+00	8.670E-01	4.752E+00	1.194E-02
11.010	5.367E+00	8.551E-01	4.759E+00	1.200E-02
11.015	5.245E+00	8.368E-01	4.766E+00	1.210E-02
11.020	5.190E+00	8.171E-01	4.728E+00	1.214E-02
11.025	5.138E+00	8.081E-01	4.686E+00	1.225E-02
11.030	5.064E+00	7.964E-01	4.658E+00	1.223E-02
11.035	5.044E+00	7.794E-01	4.602E+00	1.231E-02
11.040	4.991E+00	7.762E-01	4.549E+00	1.235E-02
11.045	4.903E+00	7.539E-01	4.493E+00	1.241E-02
11.050	4.822E+00	7.394E-01	4.452E+00	1.251E-02
11.055	4.726E+00	7.225E-01	4.413E+00	1.257E-02
11.060	4.646E+00	7.125E-01	4.359E+00	1.269E-02
11.065	4.592E+00	7.068E-01	4.320E+00	1.275E-02
11.070	4.517E+00	7.000E-01	4.305E+00	1.283E-02
11.075	4.420E+00	6.876E-01	4.292E+00	1.312E-02
11.080	4.299E+00	6.643E-01	4.303E+00	1.330E-02
11.085	4.217E+00	6.394E-01	4.311E+00	1.339E-02
11.090	4.087E+00	6.151E-01	4.330E+00	1.350E-02
11.095	4.006E+00	5.962E-01	4.316E+00	1.361E-02
11.100	3.973E+00	5.832E-01	4.292E+00	1.372E-02
11.105	3.899E+00	5.737E-01	4.270E+00	1.380E-02
11.110	3.844E+00	5.804E-01	4.268E+00	1.376E-02
11.115	3.828E+00	5.805E-01	4.258E+00	1.367E-02
11.120	3.879E+00	5.889E-01	4.276E+00	1.352E-02
11.125	3.898E+00	5.964E-01	4.291E+00	1.347E-02
11.130	3.930E+00	6.016E-01	4.301E+00	1.342E-02
11.135	4.013E+00	6.149E-01	4.245E+00	1.344E-02
11.140	4.049E+00	6.345E-01	4.205E+00	1.348E-02
11.145	4.042E+00	6.468E-01	4.196E+00	1.352E-02
11.150	3.982E+00	6.472E-01	4.180E+00	1.359E-02
11.155	4.031E+00	6.537E-01	4.117E+00	1.365E-02
11.160	4.067E+00	6.677E-01	4.084E+00	1.365E-02
11.165	4.119E+00	6.767E-01	4.090E+00	1.369E-02
11.170	4.184E+00	6.875E-01	4.061E+00	1.373E-02
11.175	4.155E+00	7.008E-01	4.052E+00	1.377E-02
11.180	4.116E+00	7.041E-01	4.057E+00	1.381E-02
11.185	4.090E+00	6.897E-01	4.068E+00	1.385E-02
11.190	4.026E+00	6.848E-01	4.076E+00	1.386E-02
11.195	4.093E+00	6.876E-01	4.119E+00	1.382E-02
11.200	4.168E+00	6.999E-01	4.109E+00	1.381E-02
11.205	4.203E+00	7.119E-01	4.115E+00	1.383E-02

TIME	CO	H2S	THC	SO2
11.210	4.158E+00	7.154E-01	4.144E+00	1.384E-02
11.215	4.151E+00	7.064E-01	4.161E+00	1.388E-02
11.220	4.133E+00	7.073E-01	4.184E+00	1.395E-02
11.225	4.136E+00	7.100E-01	4.218E+00	1.395E-02
11.230	4.168E+00	7.210E-01	4.289E+00	1.405E-02
11.235	4.217E+00	7.416E-01	4.329E+00	1.416E-02
11.240	4.247E+00	7.549E-01	4.352E+00	1.418E-02
11.245	4.273E+00	7.630E-01	4.383E+00	1.428E-02
11.250	4.322E+00	7.830E-01	4.383E+00	1.436E-02
11.255	4.388E+00	7.980E-01	4.388E+00	1.437E-02
11.260	4.433E+00	8.148E-01	4.366E+00	1.438E-02
11.265	4.563E+00	8.385E-01	4.361E+00	1.436E-02
11.270	4.590E+00	8.585E-01	4.365E+00	1.433E-02
11.275	4.626E+00	8.752E-01	4.358E+00	1.431E-02
11.280	4.700E+00	8.891E-01	4.367E+00	1.435E-02
11.285	4.805E+00	9.171E-01	4.415E+00	1.434E-02
11.290	4.879E+00	9.482E-01	4.439E+00	1.432E-02
11.295	4.930E+00	9.621E-01	4.457E+00	1.424E-02
11.300	5.006E+00	9.754E-01	4.501E+00	9.875E-03
11.305	5.082E+00	9.945E-01	4.586E+00	9.772E-03
11.310	5.166E+00	1.016E+00	4.604E+00	9.671E-03
11.315	5.262E+00	1.045E+00	4.617E+00	9.654E-03
11.320	5.338E+00	1.076E+00	4.619E+00	9.629E-03
11.325	5.373E+00	1.091E+00	4.627E+00	9.553E-03
11.330	5.395E+00	1.103E+00	4.642E+00	9.517E-03
11.335	5.440E+00	1.111E+00	4.668E+00	9.476E-03
11.340	5.502E+00	1.125E+00	4.686E+00	9.452E-03
11.345	5.560E+00	1.139E+00	4.720E+00	9.425E-03
11.350	5.626E+00	1.157E+00	4.734E+00	9.427E-03
11.355	5.662E+00	1.178E+00	4.731E+00	9.408E-03
11.360	5.714E+00	1.189E+00	4.738E+00	9.358E-03
11.365	5.816E+00	1.212E+00	4.760E+00	9.377E-03
11.370	5.906E+00	1.236E+00	4.764E+00	9.437E-03
11.375	5.993E+00	1.252E+00	4.778E+00	9.383E-03
11.380	6.149E+00	1.282E+00	4.787E+00	9.344E-03
11.385	6.288E+00	1.312E+00	4.792E+00	9.471E-03
11.390	6.430E+00	1.345E+00	4.782E+00	9.574E-03
11.395	6.461E+00	1.363E+00	4.776E+00	9.662E-03
11.400	6.483E+00	1.370E+00	4.768E+00	9.714E-03
11.405	6.596E+00	1.391E+00	4.776E+00	9.878E-03
11.410	6.652E+00	1.395E+00	4.769E+00	1.001E-02
11.415	6.698E+00	1.396E+00	4.775E+00	1.021E-02
11.420	6.737E+00	1.405E+00	4.754E+00	1.035E-02
11.425	6.805E+00	1.418E+00	4.744E+00	1.044E-02
11.430	6.933E+00	1.439E+00	4.724E+00	1.061E-02
11.435	6.933E+00	1.446E+00	4.721E+00	1.072E-02
11.440	6.969E+00	1.449E+00	4.713E+00	1.084E-02
11.445	6.998E+00	1.452E+00	4.721E+00	1.096E-02
11.450	7.024E+00	1.453E+00	4.715E+00	1.110E-02
11.455	7.027E+00	1.451E+00	4.698E+00	1.123E-02
11.460	7.042E+00	1.443E+00	4.682E+00	1.141E-02
11.465	7.091E+00	1.447E+00	4.668E+00	1.225E-02
11.470	7.076E+00	1.454E+00	4.674E+00	1.255E-02
11.475	7.085E+00	1.448E+00	4.654E+00	1.286E-02
11.480	7.071E+00	1.437E+00	4.616E+00	1.308E-02
11.485	7.162E+00	1.434E+00	4.608E+00	1.328E-02
11.490	7.298E+00	1.438E+00	4.601E+00	1.349E-02
11.495	7.365E+00	1.452E+00	4.559E+00	1.378E-02
11.500	7.360E+00	1.459E+00	4.549E+00	1.398E-02
11.505	7.333E+00	1.454E+00	4.509E+00	1.414E-02
11.510	7.277E+00	1.438E+00	4.467E+00	1.429E-02
11.515	7.201E+00	1.424E+00	4.465E+00	1.445E-02
11.520	7.139E+00	1.403E+00	4.424E+00	1.455E-02
11.525	7.095E+00	1.381E+00	4.370E+00	1.461E-02
11.530	6.985E+00	1.358E+00	4.311E+00	1.470E-02
11.535	6.869E+00	1.329E+00	4.268E+00	1.476E-02
11.540	6.788E+00	1.297E+00	4.235E+00	1.483E-02
11.545	6.711E+00	1.265E+00	4.219E+00	1.486E-02
11.550	6.626E+00	1.234E+00	4.248E+00	1.486E-02
11.555	6.568E+00	1.211E+00	4.232E+00	1.490E-02
11.560	6.533E+00	1.193E+00	4.184E+00	1.499E-02
11.565	6.428E+00	1.167E+00	4.123E+00	1.504E-02

TIME	CO	H2S	THC	SO2
11.570	6.421E+00	1.150E+00	4.030E+00	1.507E-02
11.575	6.423E+00	1.135E+00	4.009E+00	1.505E-02
11.580	6.420E+00	1.133E+00	3.971E+00	1.506E-02
11.585	6.410E+00	1.121E+00	3.935E+00	1.506E-02
11.590	6.401E+00	1.112E+00	3.888E+00	1.507E-02
11.595	6.362E+00	1.097E+00	3.816E+00	1.509E-02
12.000	6.366E+00	1.090E+00	3.740E+00	1.508E-02
12.005	6.380E+00	1.087E+00	3.648E+00	1.509E-02
12.010	6.394E+00	1.079E+00	3.591E+00	1.509E-02
12.015	6.362E+00	1.066E+00	3.526E+00	1.510E-02
12.020	6.377E+00	1.048E+00	3.490E+00	1.515E-02
12.025	6.402E+00	1.042E+00	3.457E+00	1.520E-02
12.030	6.431E+00	1.043E+00	3.436E+00	1.523E-02
12.035	6.455E+00	1.051E+00	3.401E+00	1.529E-02
12.040	6.535E+00	1.060E+00	3.401E+00	1.530E-02
12.045	6.520E+00	1.071E+00	3.376E+00	1.531E-02
12.050	6.513E+00	1.067E+00	3.363E+00	1.528E-02
12.055	6.560E+00	1.057E+00	3.390E+00	1.526E-02
12.060	6.599E+00	1.070E+00	3.407E+00	1.517E-02
12.065	6.609E+00	1.072E+00	3.420E+00	1.508E-02
12.070	6.583E+00	1.065E+00	3.478E+00	1.503E-02
12.075	6.538E+00	1.060E+00	3.517E+00	1.487E-02
12.080	6.459E+00	1.045E+00	3.503E+00	1.475E-02
12.085	6.370E+00	1.028E+00	3.463E+00	1.459E-02
12.090	6.272E+00	1.003E+00	3.442E+00	1.442E-02
12.095	6.280E+00	9.929E-01	3.442E+00	1.426E-02
12.100	6.270E+00	9.922E-01	3.469E+00	1.413E-02
12.105	6.144E+00	9.701E-01	3.509E+00	1.391E-02
12.110	6.079E+00	9.576E-01	3.555E+00	1.373E-02
12.115	6.052E+00	9.580E-01	3.599E+00	1.353E-02
12.120	5.990E+00	9.434E-01	3.657E+00	1.340E-02
12.125	5.952E+00	9.320E-01	3.664E+00	1.327E-02
12.130	5.844E+00	9.171E-01	3.681E+00	1.313E-02
12.135	5.799E+00	9.185E-01	3.712E+00	1.298E-02
12.140	5.801E+00	9.087E-01	3.753E+00	1.285E-02
12.145	5.806E+00	9.176E-01	3.746E+00	1.275E-02
12.150	5.801E+00	9.268E-01	3.795E+00	1.263E-02
12.155	5.768E+00	9.218E-01	3.839E+00	1.248E-02
12.160	5.720E+00	9.159E-01	3.886E+00	1.234E-02
12.165	5.639E+00	9.035E-01	3.861E+00	1.146E-02
12.170	5.564E+00	8.850E-01	3.879E+00	1.117E-02
12.175	5.522E+00	8.726E-01	3.912E+00	1.090E-02
12.180	5.485E+00	8.671E-01	3.959E+00	1.071E-02
12.185	5.366E+00	8.586E-01	4.006E+00	1.051E-02
12.190	5.240E+00	8.376E-01	4.120E+00	1.032E-02
12.195	5.173E+00	8.129E-01	4.157E+00	1.009E-02
12.200	5.231E+00	8.123E-01	4.112E+00	9.923E-03
12.205	5.257E+00	8.209E-01	4.091E+00	9.775E-03
12.210	5.271E+00	8.274E-01	4.068E+00	9.619E-03
12.215	5.316E+00	8.312E-01	4.036E+00	9.544E-03
12.220	5.377E+00	8.484E-01	4.066E+00	9.486E-03
12.225	5.405E+00	8.600E-01	4.084E+00	9.543E-03
12.230	5.426E+00	8.641E-01	4.073E+00	9.441E-03
12.235	5.447E+00	8.631E-01	4.073E+00	9.381E-03
12.240	5.473E+00	8.690E-01	4.062E+00	9.362E-03
12.245	5.515E+00	8.782E-01	4.023E+00	9.365E-03
12.250	5.568E+00	8.839E-01	3.977E+00	9.425E-03
12.255	5.669E+00	9.113E-01	3.986E+00	9.477E-03
12.260	5.738E+00	9.388E-01	4.016E+00	9.523E-03
12.265	5.775E+00	9.512E-01	4.071E+00	9.635E-03
12.270	5.817E+00	9.609E-01	4.110E+00	9.706E-03
12.275	5.803E+00	9.707E-01	4.130E+00	9.782E-03
12.280	5.744E+00	9.604E-01	4.132E+00	9.857E-03
12.285	5.698E+00	9.434E-01	4.146E+00	9.972E-03
12.290	5.706E+00	9.308E-01	4.163E+00	1.007E-02
12.295	5.699E+00	9.405E-01	4.173E+00	1.016E-02
12.300	5.693E+00	9.430E-01	4.178E+00	1.025E-02
12.305	5.625E+00	9.333E-01	4.177E+00	1.036E-02
12.310	5.570E+00	9.265E-01	4.216E+00	1.044E-02
12.315	5.547E+00	9.162E-01	4.311E+00	1.047E-02
12.320	5.469E+00	9.080E-01	4.394E+00	1.056E-02
12.325	5.469E+00	9.050E-01	4.488E+00	1.063E-02

TIME	CO	H2S	THC	SO2
12.330	5.471E+00	9.025E-01	4.532E+00	1.071E-02
12.335	5.419E+00	8.945E-01	4.537E+00	1.077E-02
12.340	5.345E+00	8.774E-01	4.512E+00	1.084E-02
12.345	5.408E+00	8.621E-01	4.533E+00	1.090E-02
12.350	5.408E+00	8.663E-01	4.566E+00	1.100E-02
12.355	5.330E+00	8.669E-01	4.550E+00	1.113E-02
12.360	5.285E+00	8.463E-01	4.525E+00	1.127E-02
12.365	5.203E+00	8.241E-01	4.490E+00	1.143E-02
12.370	5.177E+00	8.144E-01	4.472E+00	1.151E-02
12.375	5.165E+00	8.079E-01	4.456E+00	1.163E-02
12.380	5.129E+00	8.011E-01	4.432E+00	1.184E-02
12.385	5.128E+00	7.903E-01	4.477E+00	1.200E-02
12.390	5.133E+00	7.911E-01	4.485E+00	1.224E-02
12.395	5.157E+00	7.961E-01	4.500E+00	1.241E-02
12.400	5.134E+00	7.958E-01	4.478E+00	1.256E-02
12.405	5.139E+00	7.957E-01	4.428E+00	1.272E-02
12.410	5.163E+00	7.944E-01	4.373E+00	1.289E-02
12.415	5.118E+00	7.817E-01	4.378E+00	1.306E-02
12.420	5.084E+00	7.754E-01	4.385E+00	1.320E-02
12.425	5.066E+00	7.690E-01	4.389E+00	1.331E-02
12.430	5.063E+00	7.652E-01	4.416E+00	1.337E-02
12.435	5.041E+00	7.527E-01	4.398E+00	1.344E-02
12.440	4.971E+00	7.456E-01	4.404E+00	1.348E-02
12.445	4.934E+00	7.206E-01	4.393E+00	1.344E-02
12.450	4.851E+00	6.978E-01	4.427E+00	1.341E-02
12.455	4.829E+00	6.872E-01	4.459E+00	1.333E-02
12.460	4.822E+00	6.851E-01	4.466E+00	1.325E-02
12.465	4.835E+00	6.857E-01	4.549E+00	1.312E-02
12.470	4.932E+00	6.970E-01	4.538E+00	1.281E-02
12.475	4.992E+00	7.191E-01	4.562E+00	1.245E-02
12.480	5.034E+00	7.334E-01	4.568E+00	1.212E-02
12.485	5.099E+00	7.519E-01	4.524E+00	1.182E-02
12.490	5.136E+00	7.664E-01	4.415E+00	1.149E-02
12.495	5.154E+00	7.842E-01	4.359E+00	1.113E-02
12.500	5.111E+00	7.806E-01	4.337E+00	1.067E-02
12.505	5.140E+00	7.829E-01	4.340E+00	1.025E-02
12.510	5.199E+00	7.964E-01	4.350E+00	1.001E-02
12.515	5.234E+00	8.149E-01	4.332E+00	9.700E-03
12.520	5.263E+00	8.191E-01	4.306E+00	9.624E-03
12.525	5.298E+00	8.303E-01	4.274E+00	9.478E-03
12.530	5.362E+00	8.511E-01	4.267E+00	9.405E-03
12.535	5.439E+00	8.729E-01	4.281E+00	9.305E-03
12.540	5.472E+00	8.910E-01	4.281E+00	9.176E-03
12.545	5.495E+00	9.003E-01	4.303E+00	9.036E-03
12.550	5.538E+00	9.101E-01	4.318E+00	8.842E-03
12.555	5.508E+00	9.098E-01	4.327E+00	8.690E-03
12.560	5.481E+00	9.094E-01	4.322E+00	8.531E-03
12.565	5.463E+00	9.098E-01	4.282E+00	8.337E-03
12.570	5.427E+00	9.033E-01	4.276E+00	8.155E-03
12.575	5.457E+00	9.000E-01	4.251E+00	7.963E-03
12.580	5.430E+00	9.008E-01	4.312E+00	7.826E-03
12.585	5.406E+00	8.964E-01	4.328E+00	7.600E-03
12.590	5.355E+00	8.881E-01	4.378E+00	7.442E-03
12.595	5.322E+00	8.756E-01	4.387E+00	7.227E-03
13.000	5.298E+00	8.655E-01	4.391E+00	7.042E-03
13.005	5.365E+00	8.628E-01	4.423E+00	6.836E-03
13.010	5.399E+00	8.638E-01	4.422E+00	6.688E-03
13.015	5.412E+00	8.654E-01	4.374E+00	6.539E-03
13.020	5.430E+00	8.640E-01	4.380E+00	6.330E-03
13.025	5.419E+00	8.607E-01	4.338E+00	6.132E-03
13.030	5.486E+00	8.594E-01	4.308E+00	5.967E-03
13.035	5.580E+00	8.754E-01	4.327E+00	5.795E-03
13.040	5.630E+00	8.929E-01	4.341E+00	5.603E-03
13.045	5.662E+00	9.077E-01	4.342E+00	5.436E-03
13.050	5.725E+00	9.231E-01	4.337E+00	5.255E-03
13.055	5.820E+00	9.377E-01	4.342E+00	5.033E-03
13.060	5.844E+00	9.534E-01	4.370E+00	4.868E-03
13.065	5.882E+00	9.695E-01	4.410E+00	4.664E-03
13.070	5.875E+00	9.715E-01	4.460E+00	4.506E-03
13.075	5.870E+00	9.702E-01	4.478E+00	4.267E-03
13.080	5.875E+00	9.675E-01	4.556E+00	4.094E-03
13.085	5.845E+00	9.685E-01	4.536E+00	3.929E-03

TIME	CO	H2S	THC	SO2
13.090	5.818E+00	9.626E-01	4.636E+00	3.636E-03
13.095	5.761E+00	9.497E-01	4.646E+00	3.376E-03
13.100	5.763E+00	9.410E-01	4.651E+00	3.138E-03
13.105	5.757E+00	9.345E-01	4.660E+00	2.900E-03
13.110	5.724E+00	9.259E-01	4.744E+00	2.732E-03
13.115	5.717E+00	9.244E-01	4.739E+00	2.477E-03
13.120	5.736E+00	9.236E-01	4.726E+00	2.188E-03
13.125	5.722E+00	9.231E-01	4.751E+00	1.916E-03
13.130	5.681E+00	9.157E-01	4.689E+00	1.741E-03
13.135	5.799E+00	9.061E-01	4.699E+00	1.548E-03
13.140	5.818E+00	9.078E-01	4.680E+00	1.389E-03
13.145	5.812E+00	9.090E-01	4.715E+00	1.239E-03
13.150	5.850E+00	9.106E-01	4.657E+00	1.138E-03
13.155	5.842E+00	9.101E-01	4.589E+00	1.079E-03
13.160	5.852E+00	9.077E-01	4.612E+00	1.003E-03
13.165	5.848E+00	9.049E-01	4.599E+00	1.061E-03
13.170	5.878E+00	8.950E-01	4.603E+00	1.222E-03
13.175	5.932E+00	8.927E-01	4.584E+00	1.429E-03
13.180	5.960E+00	8.940E-01	4.563E+00	1.596E-03
13.185	5.969E+00	8.924E-01	4.574E+00	1.763E-03
13.190	5.922E+00	8.912E-01	4.591E+00	1.923E-03
13.195	5.871E+00	8.749E-01	4.659E+00	2.189E-03
13.200	5.830E+00	8.652E-01	4.730E+00	2.459E-03
13.205	5.824E+00	8.544E-01	4.790E+00	2.692E-03
13.210	5.748E+00	8.363E-01	4.777E+00	2.800E-03
13.215	5.660E+00	8.139E-01	4.785E+00	2.880E-03
13.220	5.558E+00	7.917E-01	4.803E+00	2.730E-03
13.225	5.572E+00	7.764E-01	4.845E+00	2.682E-03
13.230	5.568E+00	7.676E-01	4.863E+00	2.540E-03
13.235	5.556E+00	7.628E-01	4.849E+00	2.425E-03
13.240	5.578E+00	7.604E-01	4.878E+00	2.381E-03
13.245	5.604E+00	7.643E-01	4.878E+00	2.317E-03
13.250	5.566E+00	7.637E-01	4.921E+00	2.242E-03
13.255	5.483E+00	7.462E-01	4.927E+00	2.202E-03
13.260	5.390E+00	7.194E-01	4.952E+00	2.191E-03
13.265	5.423E+00	7.073E-01	5.048E+00	2.179E-03
13.270	5.505E+00	7.142E-01	5.069E+00	2.156E-03
13.275	5.540E+00	7.329E-01	5.111E+00	2.113E-03
13.280	5.541E+00	7.455E-01	5.085E+00	2.112E-03
13.285	5.529E+00	7.490E-01	5.141E+00	2.119E-03
13.290	5.508E+00	7.500E-01	5.174E+00	2.163E-03
13.295	5.531E+00	7.549E-01	5.224E+00	2.284E-03
13.300	5.525E+00	7.685E-01	5.310E+00	2.331E-03
13.305	5.502E+00	7.804E-01	5.353E+00	2.365E-03
13.310	5.520E+00	8.002E-01	5.389E+00	2.434E-03
13.315	5.551E+00	8.270E-01	5.427E+00	2.562E-03
13.320	5.587E+00	8.504E-01	5.430E+00	2.666E-03
13.325	5.651E+00	8.739E-01	5.464E+00	2.762E-03
13.330	5.656E+00	9.024E-01	5.532E+00	2.831E-03
13.335	5.634E+00	9.211E-01	5.597E+00	2.915E-03
13.340	5.541E+00	9.208E-01	5.674E+00	2.981E-03
13.345	5.441E+00	9.102E-01	5.730E+00	3.085E-03
13.350	5.350E+00	8.870E-01	5.828E+00	3.210E-03
13.355	5.319E+00	8.749E-01	5.914E+00	3.358E-03
13.360	5.340E+00	8.745E-01	5.992E+00	3.535E-03
13.365	5.357E+00	8.650E-01	6.064E+00	3.688E-03
13.370	5.382E+00	8.781E-01	6.071E+00	3.859E-03
13.375	5.425E+00	8.962E-01	6.065E+00	4.002E-03
13.380	5.484E+00	9.253E-01	6.044E+00	4.154E-03
13.385	5.586E+00	9.504E-01	6.092E+00	4.198E-03
13.390	5.634E+00	9.776E-01	6.006E+00	4.384E-03
13.395	5.697E+00	9.908E-01	6.046E+00	4.565E-03
13.400	5.714E+00	1.004E+00	6.142E+00	4.814E-03
13.405	5.815E+00	1.014E+00	6.202E+00	4.999E-03
13.410	5.851E+00	1.049E+00	6.158E+00	5.113E-03
13.415	5.907E+00	1.070E+00	6.167E+00	5.352E-03
13.420	5.982E+00	1.097E+00	6.178E+00	5.646E-03
13.425	6.044E+00	1.127E+00	6.162E+00	5.897E-03
13.430	6.092E+00	1.155E+00	6.216E+00	6.043E-03
13.435	6.046E+00	1.180E+00	6.259E+00	6.276E-03
13.440	6.103E+00	1.199E+00	6.282E+00	6.508E-03
13.445	6.152E+00	1.224E+00	6.309E+00	6.777E-03

TIME	CO	H2S	THC	SO2
13.450	6.219E+00	1.247E+00	6.323E+00	6.963E-03
13.455	6.268E+00	1.270E+00	6.440E+00	7.184E-03
13.460	6.321E+00	1.284E+00	6.450E+00	7.435E-03
13.465	6.360E+00	1.293E+00	6.496E+00	7.659E-03
13.470	6.274E+00	1.298E+00	6.565E+00	7.870E-03
13.475	6.155E+00	1.283E+00	6.665E+00	8.027E-03
13.480	6.076E+00	1.265E+00	6.734E+00	8.301E-03
13.485	6.003E+00	1.248E+00	6.828E+00	8.505E-03
13.490	5.987E+00	1.236E+00	6.891E+00	8.739E-03
13.495	5.975E+00	1.233E+00	6.887E+00	8.910E-03
13.500	6.016E+00	1.231E+00	6.908E+00	9.195E-03
13.505	6.069E+00	1.247E+00	6.943E+00	9.436E-03
13.510	6.215E+00	1.280E+00	7.068E+00	9.626E-03
13.515	6.271E+00	1.304E+00	7.137E+00	9.843E-03
13.520	6.319E+00	1.318E+00	7.191E+00	1.009E-02
13.525	6.266E+00	1.321E+00	7.251E+00	1.028E-02
13.530	6.238E+00	1.324E+00	7.369E+00	1.052E-02
13.535	6.245E+00	1.323E+00	7.387E+00	1.079E-02
13.540	6.317E+00	1.340E+00	7.433E+00	1.097E-02
13.545	6.323E+00	1.352E+00	7.467E+00	1.120E-02
13.550	6.316E+00	1.358E+00	7.450E+00	1.140E-02
13.555	6.325E+00	1.362E+00	7.448E+00	1.162E-02
13.560	6.348E+00	1.369E+00	7.431E+00	1.175E-02
13.565	6.324E+00	1.372E+00	7.368E+00	1.191E-02
13.570	6.258E+00	1.371E+00	7.345E+00	1.205E-02
13.575	6.245E+00	1.359E+00	7.345E+00	1.229E-02
13.580	6.354E+00	1.358E+00	7.335E+00	1.239E-02
13.585	6.447E+00	1.381E+00	7.272E+00	1.255E-02
13.590	6.577E+00	1.404E+00	7.161E+00	1.257E-02
13.595	6.703E+00	1.427E+00	7.137E+00	1.263E-02
14.000	6.728E+00	1.431E+00	7.062E+00	1.275E-02
14.005	6.775E+00	1.437E+00	7.059E+00	1.287E-02
14.010	6.773E+00	1.440E+00	7.093E+00	1.295E-02
14.015	6.752E+00	1.421E+00	7.108E+00	1.293E-02
14.020	6.760E+00	1.409E+00	7.105E+00	1.296E-02
14.025	6.687E+00	1.397E+00	7.069E+00	1.303E-02
14.030	6.662E+00	1.381E+00	7.045E+00	1.312E-02
14.035	6.669E+00	1.370E+00	6.992E+00	1.315E-02
14.040	6.778E+00	1.378E+00	6.959E+00	1.326E-02
14.045	6.859E+00	1.395E+00	6.936E+00	1.331E-02
14.050	6.941E+00	1.421E+00	6.897E+00	1.335E-02
14.055	6.949E+00	1.437E+00	6.858E+00	1.338E-02
14.060	6.958E+00	1.444E+00	6.823E+00	1.336E-02
14.065	6.997E+00	1.462E+00	6.810E+00	1.337E-02
14.070	7.070E+00	1.467E+00	6.790E+00	1.336E-02
14.075	7.147E+00	1.472E+00	6.808E+00	1.340E-02
14.080	7.126E+00	1.481E+00	6.831E+00	1.340E-02
14.085	7.103E+00	1.486E+00	6.867E+00	1.348E-02
14.090	7.081E+00	1.477E+00	6.892E+00	1.347E-02
14.095	7.045E+00	1.477E+00	6.871E+00	1.348E-02
14.100	7.111E+00	1.482E+00	6.829E+00	1.342E-02
14.105	7.142E+00	1.514E+00	6.801E+00	1.344E-02
14.110	7.201E+00	1.520E+00	6.791E+00	1.350E-02
14.115	7.267E+00	1.526E+00	6.774E+00	1.345E-02
14.120	7.266E+00	1.529E+00	6.765E+00	1.343E-02
14.125	7.218E+00	1.515E+00	6.775E+00	1.349E-02
14.130	7.193E+00	1.499E+00	6.770E+00	1.360E-02
14.135	7.178E+00	1.490E+00	6.712E+00	1.367E-02
14.140	7.152E+00	1.479E+00	6.659E+00	1.377E-02
14.145	7.147E+00	1.467E+00	6.590E+00	1.385E-02
14.150	7.116E+00	1.458E+00	6.547E+00	1.400E-02
14.155	7.130E+00	1.456E+00	6.444E+00	1.419E-02
14.160	7.239E+00	1.474E+00	6.407E+00	1.433E-02
14.165	7.276E+00	1.506E+00	6.320E+00	1.443E-02
14.170	7.303E+00	1.534E+00	6.247E+00	1.456E-02
14.175	7.303E+00	1.542E+00	6.149E+00	1.473E-02
14.180	7.292E+00	1.543E+00	6.065E+00	1.482E-02
14.185	7.292E+00	1.543E+00	5.994E+00	1.500E-02
14.190	7.372E+00	1.555E+00	5.960E+00	1.513E-02
14.195	7.495E+00	1.578E+00	5.959E+00	1.528E-02
14.200	7.491E+00	1.600E+00	5.886E+00	1.533E-02
14.205	7.476E+00	1.600E+00	5.825E+00	1.552E-02

TIME	CO	H2S	THC	SO2
14.210	7.440E+00	1.604E+00	5.764E+00	1.570E-02
14.215	7.428E+00	1.605E+00	5.731E+00	1.584E-02
14.220	7.423E+00	1.602E+00	5.686E+00	1.600E-02
14.225	7.426E+00	1.597E+00	5.632E+00	1.611E-02
14.230	7.432E+00	1.586E+00	5.520E+00	1.624E-02
14.235	7.352E+00	1.580E+00	5.540E+00	1.634E-02
14.240	7.235E+00	1.549E+00	5.517E+00	1.644E-02
14.245	7.153E+00	1.529E+00	5.525E+00	1.650E-02
14.250	7.139E+00	1.512E+00	5.539E+00	1.660E-02
14.255	7.214E+00	1.513E+00	5.561E+00	1.667E-02
14.260	7.303E+00	1.498E+00	5.592E+00	1.673E-02
14.265	7.213E+00	1.484E+00	5.507E+00	1.649E-02

STATISTICS

POLLUTANT	NUMBER OF READINGS	ARITHMETIC MEAN	STANDARD DEVIATION	GEOMETRIC MEAN	GEOMETRIC STANDARD DEVIATION
CO	514	5.707E+00	8.687E-01	5.642E+00	1.164E+00
H2S	514	9.918E-01	2.725E-01	9.575E-01	1.302E+00
THC	514	4.752E+00	1.054E+00	4.648E+00	1.232E+00
SO2	514	9.423E-03	4.313E-03	8.138E-03	1.872E+00

SURVEY: FT FRANCES #13

DATE NOV 13,1974 SCAN TIME 30 SEC AVERAGING TIME 30 MIN

TIME	CO	H2S	THC	SO2
15.130	4.343E+00	5.564E-01	2.780E+00	4.819E-03
15.135	4.282E+00	5.472E-01	2.773E+00	4.879E-03
15.140	4.243E+00	5.307E-01	2.761E+00	4.946E-03
15.145	4.211E+00	5.211E-01	2.764E+00	5.028E-03
15.150	4.198E+00	5.119E-01	2.800E+00	5.099E-03
15.155	4.204E+00	5.137E-01	2.829E+00	5.161E-03
15.160	4.213E+00	5.144E-01	2.871E+00	5.236E-03
15.165	4.192E+00	5.138E-01	2.891E+00	5.291E-03
15.170	4.199E+00	5.125E-01	2.908E+00	5.384E-03
15.175	4.189E+00	5.118E-01	2.933E+00	5.487E-03
15.180	4.180E+00	5.080E-01	2.956E+00	5.580E-03
15.185	4.153E+00	5.015E-01	2.963E+00	5.679E-03
15.190	4.107E+00	4.925E-01	2.978E+00	5.849E-03
15.195	4.064E+00	4.835E-01	2.985E+00	6.224E-03
15.200	4.017E+00	4.696E-01	2.971E+00	6.606E-03
15.205	4.008E+00	4.615E-01	2.967E+00	6.984E-03
15.210	3.996E+00	4.588E-01	2.981E+00	7.359E-03
15.215	3.991E+00	4.577E-01	2.989E+00	7.763E-03
15.220	3.973E+00	4.496E-01	2.994E+00	8.102E-03
15.225	3.947E+00	4.410E-01	3.050E+00	8.388E-03
15.230	3.959E+00	4.358E-01	3.109E+00	8.703E-03
15.235	3.951E+00	4.353E-01	3.157E+00	9.029E-03
15.240	3.906E+00	4.330E-01	3.164E+00	9.177E-03
15.245	3.898E+00	4.244E-01	3.222E+00	9.302E-03
15.250	3.884E+00	4.188E-01	3.302E+00	9.476E-03
15.255	3.868E+00	4.144E-01	3.353E+00	9.665E-03
15.260	3.849E+00	4.071E-01	3.429E+00	9.828E-03
15.265	3.862E+00	4.026E-01	3.433E+00	1.004E-02
15.270	3.891E+00	4.072E-01	3.465E+00	1.029E-02
15.275	3.910E+00	4.138E-01	3.492E+00	1.054E-02
15.280	3.925E+00	4.107E-01	3.514E+00	1.077E-02
15.285	3.931E+00	4.154E-01	3.468E+00	1.100E-02
15.290	3.943E+00	4.174E-01	3.475E+00	1.122E-02
15.295	3.963E+00	4.200E-01	3.505E+00	1.139E-02
15.300	3.962E+00	4.233E-01	3.514E+00	1.149E-02
15.305	3.984E+00	4.253E-01	3.558E+00	1.158E-02
15.310	4.017E+00	4.307E-01	3.595E+00	1.175E-02
15.315	3.993E+00	4.300E-01	3.630E+00	1.190E-02
15.320	3.947E+00	4.240E-01	3.686E+00	1.180E-02
15.325	3.875E+00	4.060E-01	3.713E+00	1.196E-02
15.330	3.859E+00	3.949E-01	3.776E+00	1.183E-02
15.335	3.815E+00	3.805E-01	3.802E+00	1.182E-02
15.340	3.762E+00	3.655E-01	3.798E+00	1.193E-02
15.345	3.766E+00	3.592E-01	3.823E+00	1.189E-02
15.350	3.784E+00	3.581E-01	3.855E+00	1.175E-02
15.355	3.815E+00	3.540E-01	3.860E+00	1.148E-02
15.360	3.820E+00	3.483E-01	3.858E+00	1.119E-02
15.365	3.820E+00	3.465E-01	3.894E+00	1.095E-02
15.370	3.832E+00	3.462E-01	3.905E+00	1.072E-02
15.375	3.828E+00	3.454E-01	3.958E+00	1.049E-02
15.380	3.849E+00	3.446E-01	3.990E+00	1.027E-02
15.385	3.841E+00	3.420E-01	3.971E+00	9.992E-03
15.390	3.821E+00	3.386E-01	3.976E+00	9.702E-03
15.395	3.822E+00	3.380E-01	3.988E+00	9.398E-03
15.400	3.832E+00	3.380E-01	4.019E+00	9.042E-03
15.405	3.859E+00	3.396E-01	4.069E+00	8.636E-03
15.410	3.872E+00	3.425E-01	4.112E+00	8.158E-03
15.415	3.869E+00	3.442E-01	4.152E+00	7.689E-03
15.420	3.865E+00	3.447E-01	4.201E+00	7.191E-03
15.425	3.859E+00	3.448E-01	4.220E+00	6.748E-03
15.430	3.858E+00	3.448E-01	4.240E+00	6.345E-03
15.435	3.863E+00	3.451E-01	4.241E+00	6.008E-03
15.440	3.853E+00	3.460E-01	4.245E+00	5.663E-03
15.445	3.835E+00	3.451E-01	4.255E+00	5.374E-03
15.450	3.812E+00	3.444E-01	4.243E+00	5.203E-03
15.455	3.785E+00	3.384E-01	4.230E+00	5.037E-03
15.460	3.740E+00	3.330E-01	4.235E+00	4.779E-03
15.465	3.720E+00	3.309E-01	4.246E+00	4.591E-03
15.470	3.691E+00	3.277E-01	4.272E+00	4.414E-03
15.475	3.654E+00	3.222E-01	4.253E+00	4.219E-03

TIME	CO	H2S	THC	SO2
15.480	3.611E+00	3.185E-01	4.229E+00	4.069E-03
15.485	3.581E+00	3.164E-01	4.246E+00	3.959E-03
15.490	3.550E+00	3.160E-01	4.245E+00	3.884E-03
15.495	3.529E+00	3.153E-01	4.248E+00	3.737E-03
15.500	3.515E+00	3.171E-01	4.270E+00	3.574E-03
15.505	3.500E+00	3.178E-01	4.292E+00	3.473E-03
15.510	3.491E+00	3.184E-01	4.303E+00	3.332E-03
15.515	3.508E+00	3.253E-01	4.316E+00	3.164E-03
15.520	3.527E+00	3.356E-01	4.319E+00	2.982E-03
15.525	3.538E+00	3.456E-01	4.300E+00	2.813E-03
15.530	3.518E+00	3.520E-01	4.311E+00	2.615E-03
15.535	3.698E+00	3.522E-01	4.304E+00	2.410E-03
15.540	3.714E+00	3.522E-01	4.322E+00	2.311E-03
15.545	3.706E+00	3.564E-01	4.312E+00	2.183E-03
15.550	3.714E+00	3.652E-01	4.287E+00	1.984E-03
15.555	3.698E+00	3.689E-01	4.270E+00	1.775E-03
15.560	3.682E+00	3.738E-01	4.222E+00	1.571E-03
15.565	3.646E+00	3.744E-01	4.262E+00	1.426E-03
15.570	3.611E+00	3.667E-01	4.278E+00	1.225E-03
15.575	3.607E+00	3.592E-01	4.295E+00	1.040E-03
15.580	3.626E+00	3.642E-01	4.303E+00	8.742E-04
15.585	3.609E+00	3.651E-01	4.314E+00	7.252E-04
15.590	3.587E+00	3.653E-01	4.332E+00	6.500E-04
15.595	3.560E+00	3.626E-01	4.326E+00	5.858E-04
16.000	3.538E+00	3.594E-01	4.360E+00	5.611E-04
16.005	3.506E+00	3.581E-01	4.363E+00	5.693E-04
16.010	3.483E+00	3.530E-01	4.373E+00	4.973E-04
16.015	3.513E+00	3.563E-01	4.374E+00	5.525E-04
16.020	3.536E+00	3.614E-01	4.356E+00	5.760E-04
16.025	3.582E+00	3.703E-01	4.342E+00	5.610E-04
16.030	3.599E+00	3.811E-01	4.283E+00	5.958E-04
16.035	3.635E+00	3.901E-01	4.275E+00	6.477E-04
16.040	3.665E+00	3.982E-01	4.268E+00	6.777E-04
16.045	3.709E+00	4.125E-01	4.231E+00	6.787E-04
16.050	3.714E+00	4.225E-01	4.207E+00	8.936E-04
16.055	3.749E+00	4.366E-01	4.215E+00	1.213E-03
16.060	3.796E+00	4.552E-01	4.229E+00	1.587E-03
16.065	3.811E+00	4.696E-01	4.207E+00	1.856E-03
16.070	3.834E+00	4.747E-01	4.243E+00	2.154E-03
16.075	3.905E+00	4.819E-01	4.216E+00	2.498E-03
16.080	3.970E+00	4.909E-01	4.213E+00	2.820E-03
16.085	4.035E+00	4.999E-01	4.241E+00	3.204E-03
16.090	4.081E+00	5.122E-01	4.246E+00	3.591E-03
16.095	4.133E+00	5.213E-01	4.278E+00	3.959E-03
16.100	4.200E+00	5.304E-01	4.307E+00	4.492E-03
16.105	4.214E+00	5.352E-01	4.311E+00	5.071E-03
16.110	4.228E+00	5.382E-01	4.308E+00	5.754E-03
16.115	4.283E+00	5.446E-01	4.307E+00	6.397E-03
16.120	4.341E+00	5.553E-01	4.297E+00	6.983E-03
16.125	4.425E+00	5.669E-01	4.322E+00	7.449E-03
16.130	4.466E+00	5.771E-01	4.329E+00	7.832E-03
16.135	4.506E+00	5.873E-01	4.349E+00	8.143E-03
16.140	4.591E+00	6.041E-01	4.369E+00	8.476E-03
16.145	4.638E+00	6.197E-01	4.351E+00	8.761E-03
16.150	4.692E+00	6.339E-01	4.377E+00	8.835E-03
16.155	4.723E+00	6.412E-01	4.403E+00	8.829E-03
16.160	4.759E+00	6.473E-01	4.395E+00	8.830E-03
16.165	4.823E+00	6.533E-01	4.406E+00	8.775E-03
16.170	4.857E+00	6.594E-01	4.371E+00	8.550E-03
16.175	4.880E+00	6.662E-01	4.390E+00	8.216E-03
16.180	4.939E+00	6.756E-01	4.413E+00	7.865E-03
16.185	4.994E+00	6.868E-01	4.397E+00	7.522E-03
16.190	5.044E+00	7.002E-01	4.415E+00	7.105E-03
16.195	5.066E+00	7.054E-01	4.433E+00	6.715E-03
16.200	5.071E+00	7.057E-01	4.414E+00	6.359E-03
16.205	5.090E+00	7.064E-01	4.432E+00	5.961E-03
16.210	5.109E+00	7.075E-01	4.427E+00	5.638E-03
16.215	5.080E+00	7.014E-01	4.394E+00	5.304E-03
16.220	5.051E+00	6.915E-01	4.372E+00	4.964E-03
16.225	5.026E+00	6.813E-01	4.333E+00	4.649E-03
16.230	5.011E+00	6.747E-01	4.277E+00	4.395E-03
16.235	4.831E+00	6.744E-01	4.272E+00	4.248E-03

TIME	CO	H2S	THC	SO2
16.240	4.807E+00	6.747E-01	4.247E+00	4.101E-03
16.245	4.821E+00	6.713E-01	4.216E+00	4.036E-03
16.250	4.815E+00	6.632E-01	4.188E+00	4.024E-03
16.255	4.813E+00	6.595E-01	4.166E+00	4.089E-03
16.260	4.806E+00	6.530E-01	4.157E+00	4.094E-03
16.265	4.804E+00	6.486E-01	4.142E+00	4.156E-03
16.270	4.800E+00	6.468E-01	4.092E+00	4.229E-03
16.275	4.769E+00	6.435E-01	4.055E+00	4.254E-03
16.280	4.717E+00	6.339E-01	4.049E+00	4.257E-03
16.285	4.705E+00	6.229E-01	4.032E+00	4.241E-03
16.290	4.694E+00	6.158E-01	4.002E+00	4.146E-03
16.295	4.685E+00	6.109E-01	4.000E+00	4.101E-03
16.300	4.674E+00	6.072E-01	3.982E+00	4.034E-03
16.305	4.654E+00	5.997E-01	3.953E+00	3.951E-03
16.310	4.632E+00	5.908E-01	3.923E+00	3.852E-03
16.315	4.598E+00	5.811E-01	3.914E+00	3.745E-03
16.320	4.567E+00	5.723E-01	3.894E+00	3.591E-03
16.325	4.515E+00	5.610E-01	3.881E+00	3.566E-03
16.330	4.454E+00	5.410E-01	3.886E+00	3.452E-03
16.335	4.409E+00	5.254E-01	3.854E+00	3.295E-03
16.340	4.386E+00	5.151E-01	3.865E+00	3.154E-03
16.345	4.302E+00	4.973E-01	3.881E+00	3.017E-03
16.350	4.256E+00	4.812E-01	3.916E+00	2.863E-03
16.355	4.233E+00	4.671E-01	3.924E+00	2.726E-03
16.360	4.214E+00	4.516E-01	3.933E+00	2.536E-03
16.365	4.211E+00	4.411E-01	3.920E+00	2.437E-03
16.370	4.179E+00	4.372E-01	3.915E+00	2.362E-03
16.375	4.112E+00	4.304E-01	3.909E+00	2.248E-03
16.380	4.017E+00	4.212E-01	3.907E+00	2.149E-03
16.385	3.942E+00	4.127E-01	3.880E+00	2.040E-03
16.390	3.900E+00	4.012E-01	3.856E+00	1.926E-03
16.395	3.846E+00	3.912E-01	3.822E+00	1.868E-03
16.400	3.765E+00	3.812E-01	3.776E+00	1.691E-03
16.405	3.716E+00	3.738E-01	3.726E+00	1.494E-03
16.410	3.680E+00	3.648E-01	3.690E+00	1.280E-03
16.415	3.612E+00	3.560E-01	3.667E+00	1.122E-03
16.420	3.554E+00	3.440E-01	3.645E+00	1.020E-03
16.425	3.483E+00	3.325E-01	3.621E+00	1.024E-03
16.430	3.444E+00	3.226E-01	3.610E+00	1.069E-03
16.435	3.440E+00	3.116E-01	3.611E+00	1.143E-03
16.440	3.376E+00	2.942E-01	3.579E+00	1.231E-03
16.445	3.355E+00	2.800E-01	3.558E+00	1.295E-03
16.450	3.303E+00	2.661E-01	3.516E+00	1.459E-03
16.455	3.272E+00	2.594E-01	3.483E+00	1.723E-03
16.460	3.263E+00	2.585E-01	3.462E+00	2.066E-03
16.465	3.217E+00	2.545E-01	3.430E+00	2.419E-03
16.470	3.192E+00	2.508E-01	3.417E+00	2.912E-03
16.475	3.176E+00	2.462E-01	3.379E+00	3.527E-03
16.480	3.141E+00	2.374E-01	3.356E+00	4.123E-03

STATISTICS

POLLUTANT	NUMBER OF READINGS	ARITHMETIC MEAN	STANDARD DEVIATION	GEOMETRIC MEAN	GEOMETRIC STANDARD DEVIATION
CO	191	4.036E+00	4.746E-01	4.009E+00	1.124E+00
H2S	191	4.514E-01	1.229E-01	4.357E-01	1.300E+00
THC	191	3.911E+00	4.691E-01	3.880E+00	1.140E+00
SO2	191	5.237E-03	3.373E-03	3.973E-03	2.308E+00

SURVEY: FT FRANCES #14

DATE NOV 13 1974 SCAN TIME 30 SEC AVERAGING TIME 30 MIN

TIME	CO	H2S	THC	SO2
0.473	3.116E+00	3.149E-01	3.471E+00	1.558E-03
0.478	3.044E+00	2.940E-01	3.477E+00	1.304E-03
0.483	2.995E+00	2.704E-01	3.443E+00	6.113E-04
0.488	2.951E+00	2.484E-01	3.398E+00	-8.740E-05
0.493	2.911E+00	2.428E-01	3.364E+00	-5.188E-04
0.498	2.881E+00	2.364E-01	3.323E+00	-5.620E-04
0.503	2.855E+00	2.292E-01	3.314E+00	-4.566E-04
0.508	2.825E+00	2.229E-01	3.294E+00	-4.123E-04
0.513	2.791E+00	2.172E-01	3.271E+00	-2.488E-04
0.518	2.764E+00	2.110E-01	3.234E+00	-7.196E-05
0.523	2.721E+00	2.054E-01	3.175E+00	1.270E-04
0.528	2.676E+00	2.002E-01	3.119E+00	1.420E-04
0.533	2.656E+00	1.954E-01	3.082E+00	9.127E-05
0.538	2.644E+00	1.904E-01	3.051E+00	2.911E-04
0.543	2.613E+00	1.846E-01	3.001E+00	6.476E-04
0.548	2.563E+00	1.781E-01	2.933E+00	9.262E-04

STATISTICS

POLLUTANT	NUMBER OF READINGS	ARITHMETIC MEAN	STANDARD DEVIATION	GEOMETRIC MEAN	GEOMETRIC STANDARD DEVIATION
CO	16	2.813E+00	1.632E-01	2.808E+00	1.060E+00
H2S	16	2.276E-01	3.915E-02	2.246E-01	1.179E+00
THC	16	3.247E+00	1.709E-01	3.242E+00	1.055E+00
SO2	16	2.082E-04	6.459E-04	2.966E-05	2.414E+01

SURVEY: FT FRANCES #15

DATE NOV 13 1974 SCAN TIME 30 SEC AVERAGING TIME 30 MIN

TIME	CO	H2S	THC	SO2
18.490	2.100E+00	1.506E-01	9.632E-02	1.595E-03
18.495	2.086E+00	1.492E-01	8.493E-02	1.498E-03
18.500	2.079E+00	1.483E-01	8.079E-02	1.380E-03
18.505	2.078E+00	1.480E-01	7.220E-02	1.296E-03
18.510	2.082E+00	1.489E-01	5.935E-02	1.229E-03
18.515	2.084E+00	1.499E-01	5.186E-02	1.105E-03
18.520	2.080E+00	1.510E-01	4.952E-02	9.621E-04
18.525	2.067E+00	1.510E-01	4.262E-02	8.513E-04
18.530	2.054E+00	1.501E-01	2.762E-02	7.762E-04
18.535	2.030E+00	1.478E-01	2.059E-02	7.140E-04
18.540	2.015E+00	1.457E-01	2.345E-02	6.022E-04
18.545	1.989E+00	1.440E-01	2.455E-02	5.156E-04
18.550	1.957E+00	1.418E-01	2.077E-02	3.968E-04
18.555	1.932E+00	1.389E-01	1.905E-02	3.105E-04
18.560	1.913E+00	1.364E-01	1.829E-02	2.455E-04
18.565	1.900E+00	1.349E-01	2.329E-02	1.923E-04
18.570	1.906E+00	1.342E-01	3.320E-02	1.406E-04
18.575	1.910E+00	1.341E-01	3.848E-02	9.918E-05
18.580	1.923E+00	1.339E-01	4.507E-02	6.079E-05
18.585	1.893E+00	1.324E-01	4.518E-02	2.993E-05
18.590	1.871E+00	1.292E-01	5.017E-02	1.235E-05
18.595	1.860E+00	1.274E-01	5.610E-02	1.327E-05
19.000	1.864E+00	1.264E-01	6.556E-02	-7.100E-06
19.005	1.862E+00	1.260E-01	7.509E-02	-4.481E-05
19.010	1.864E+00	1.263E-01	8.490E-02	-3.915E-05
19.015	1.858E+00	1.259E-01	8.472E-02	-5.119E-05
19.020	1.848E+00	1.250E-01	8.914E-02	-5.529E-05
19.025	1.854E+00	1.246E-01	9.011E-02	-4.281E-05
19.030	1.852E+00	1.250E-01	9.308E-02	-2.712E-06
19.035	1.852E+00	1.260E-01	9.961E-02	1.989E-05
19.040	1.864E+00	1.268E-01	1.040E-01	3.042E-05
19.045	1.860E+00	1.282E-01	1.148E-01	6.793E-05
19.050	1.851E+00	1.289E-01	1.226E-01	1.038E-04
19.055	1.841E+00	1.285E-01	1.250E-01	1.468E-04
19.060	1.819E+00	1.276E-01	1.219E-01	1.925E-04
19.065	1.761E+00	1.259E-01	1.137E-01	2.521E-04
19.070	1.702E+00	1.254E-01	1.130E-01	3.160E-04
19.075	1.707E+00	1.257E-01	1.161E-01	3.773E-04
19.080	1.705E+00	1.259E-01	1.211E-01	4.520E-04
19.085	1.703E+00	1.262E-01	1.215E-01	5.383E-04
19.090	1.704E+00	1.262E-01	1.215E-01	6.246E-04
19.095	1.707E+00	1.257E-01	1.208E-01	7.324E-04
19.100	1.719E+00	1.260E-01	1.211E-01	8.425E-04
19.105	1.717E+00	1.255E-01	1.206E-01	9.527E-04
19.110	1.728E+00	1.243E-01	1.193E-01	1.063E-03
19.115	1.729E+00	1.235E-01	1.186E-01	1.173E-03
19.120	1.740E+00	1.239E-01	1.189E-01	1.283E-03
19.125	1.751E+00	1.238E-01	1.189E-01	1.393E-03
19.130	1.739E+00	1.231E-01	1.181E-01	1.504E-03
19.135	1.733E+00	1.212E-01	1.161E-01	1.609E-03
19.140	1.728E+00	1.184E-01	1.131E-01	1.720E-03
19.145	1.714E+00	1.148E-01	1.093E-01	1.830E-03
19.150	1.701E+00	1.112E-01	1.055E-01	1.941E-03
19.155	1.701E+00	1.090E-01	1.032E-01	2.051E-03
19.160	1.698E+00	1.073E-01	1.013E-01	2.161E-03
19.165	1.703E+00	1.062E-01	1.002E-01	2.272E-03
19.170	1.691E+00	1.036E-01	9.747E-02	2.386E-03
19.175	1.700E+00	1.019E-01	9.575E-02	2.497E-03
19.180	1.702E+00	1.010E-01	9.476E-02	2.607E-03
19.185	1.714E+00	1.007E-01	9.458E-02	2.717E-03
19.190	1.725E+00	1.007E-01	9.459E-02	2.869E-03
19.195	1.743E+00	1.009E-01	9.481E-02	3.020E-03
19.200	1.761E+00	1.015E-01	9.554E-02	3.193E-03
19.205	1.772E+00	1.020E-01	9.612E-02	3.365E-03
19.210	1.773E+00	1.008E-01	9.485E-02	3.539E-03
19.215	1.771E+00	9.938E-02	9.338E-02	3.714E-03
19.220	1.736E+00	9.589E-02	8.992E-02	3.740E-03

STATISTICS

POLLUTANT	NUMBER OF READINGS	ARITHMETIC MEAN	STANDARD DEVIATION	GEOMETRIC MEAN	GEOMETRIC STANDARD DEVIATION
CO	67	1.837E+00	1.298E-01	1.833E+00	1.071E+00
H2S	67	1.257E-01	1.539E-02	1.247E-01	1.135E+00
THC	67	8.518E-02	3.349E-02	7.559E-02	1.747E+00
SO2	67	1.091E-03	1.094E-03	3.176E-04	1.139E+01

SURVEY: FT FRANCES #16

DATE NOV 14 1974 SCAN TIME 30 SEC AVERAGING TIME 30 MIN

TIME	CO	H2S
12.050	2.887E+00	1.387E-01
12.055	2.876E+00	1.382E-01
12.060	2.778E+00	1.366E-01
12.065	2.770E+00	1.359E-01
12.070	2.841E+00	1.403E-01
12.075	2.859E+00	1.459E-01
12.080	2.901E+00	1.520E-01
12.085	2.914E+00	1.552E-01
12.090	2.939E+00	1.596E-01
12.095	2.954E+00	1.614E-01
12.100	2.988E+00	1.644E-01
12.105	2.998E+00	1.670E-01
12.110	3.005E+00	1.705E-01
12.115	3.057E+00	1.744E-01
12.120	3.092E+00	1.770E-01
12.125	3.124E+00	1.788E-01
12.130	3.160E+00	1.797E-01
12.135	3.181E+00	1.819E-01
12.140	3.218E+00	1.853E-01
12.145	3.248E+00	1.890E-01
12.150	3.272E+00	1.906E-01
12.155	3.297E+00	1.957E-01
12.160	3.315E+00	1.999E-01
12.165	3.328E+00	2.016E-01
12.170	3.397E+00	2.043E-01
12.175	3.409E+00	2.071E-01
12.180	3.428E+00	2.096E-01
12.185	3.445E+00	2.123E-01
12.190	3.479E+00	2.177E-01
12.195	3.535E+00	2.275E-01
12.200	3.539E+00	2.352E-01
12.205	3.536E+00	2.402E-01
12.210	3.567E+00	2.453E-01
12.215	3.580E+00	2.540E-01
12.220	3.581E+00	2.576E-01
12.225	3.596E+00	2.640E-01
12.230	3.582E+00	2.690E-01
12.235	3.648E+00	2.746E-01
12.240	3.651E+00	2.827E-01
12.245	3.682E+00	2.887E-01
12.250	3.706E+00	3.006E-01
12.255	3.747E+00	3.062E-01
12.260	3.754E+00	3.114E-01
12.265	3.792E+00	3.160E-01
12.270	3.807E+00	3.268E-01
12.275	3.845E+00	3.366E-01
12.280	3.828E+00	3.452E-01
12.285	3.808E+00	3.493E-01
12.290	3.821E+00	3.552E-01
12.295	3.826E+00	3.577E-01
12.300	3.824E+00	3.596E-01
12.305	3.811E+00	3.654E-01
12.310	3.789E+00	3.683E-01
12.315	3.801E+00	3.708E-01
12.320	3.797E+00	3.754E-01
12.325	3.766E+00	3.795E-01
12.330	3.688E+00	3.808E-01
12.335	3.645E+00	3.807E-01
12.340	3.638E+00	3.836E-01
12.345	3.644E+00	3.905E-01
12.350	3.618E+00	3.948E-01
12.355	3.632E+00	3.980E-01
12.360	3.634E+00	4.059E-01
12.365	3.631E+00	4.115E-01
12.370	3.561E+00	4.097E-01
12.375	3.536E+00	4.075E-01
12.380	3.533E+00	4.096E-01
12.385	3.541E+00	4.174E-01
12.390	3.580E+00	4.195E-01
12.395	3.550E+00	4.246E-01

TIME	CO	H2S
12.400	3.526E+00	4.277E-01
12.405	3.551E+00	4.292E-01
12.410	3.544E+00	4.321E-01
12.415	3.526E+00	4.376E-01
12.420	3.483E+00	4.401E-01
12.425	3.463E+00	4.423E-01
12.430	3.447E+00	4.443E-01
12.435	3.495E+00	4.478E-01
12.440	3.483E+00	4.496E-01
12.445	3.487E+00	4.498E-01
12.450	3.487E+00	4.497E-01
12.455	3.487E+00	4.465E-01
12.460	3.530E+00	4.500E-01
12.465	3.532E+00	4.524E-01
12.470	3.485E+00	4.528E-01
12.475	3.537E+00	4.535E-01
12.480	3.569E+00	4.573E-01
12.485	3.566E+00	4.610E-01
12.490	3.591E+00	4.645E-01
12.495	3.720E+00	4.638E-01
12.500	3.831E+00	4.805E-01
12.505	3.933E+00	4.906E-01
12.510	3.941E+00	4.970E-01
12.515	4.004E+00	4.989E-01
12.520	4.090E+00	5.131E-01
12.525	4.108E+00	5.201E-01
12.530	4.122E+00	5.223E-01
12.535	4.064E+00	5.227E-01
12.540	4.068E+00	5.203E-01
12.545	4.068E+00	5.190E-01
12.550	4.043E+00	5.123E-01
12.555	4.001E+00	5.072E-01
12.560	4.075E+00	5.058E-01
12.565	4.064E+00	5.076E-01
12.570	4.129E+00	5.081E-01
12.575	4.194E+00	5.199E-01
12.580	4.226E+00	5.211E-01
12.585	4.277E+00	5.219E-01
12.590	4.278E+00	5.214E-01
12.595	4.278E+00	5.258E-01
13.000	4.281E+00	5.313E-01
13.005	4.332E+00	5.339E-01
13.010	4.362E+00	5.353E-01
13.015	4.371E+00	5.335E-01
13.020	4.400E+00	5.311E-01
13.025	4.404E+00	5.280E-01
13.030	4.454E+00	5.287E-01
13.035	4.486E+00	5.354E-01
13.040	4.491E+00	5.351E-01
13.045	4.502E+00	5.317E-01
13.050	4.525E+00	5.305E-01
13.055	4.477E+00	5.286E-01
13.060	4.433E+00	5.204E-01
13.065	4.374E+00	5.109E-01
13.070	4.367E+00	5.043E-01
13.075	4.353E+00	5.026E-01
13.080	4.335E+00	4.986E-01
13.085	4.318E+00	4.890E-01
13.090	4.265E+00	4.869E-01
13.095	4.323E+00	4.829E-01
13.100	4.355E+00	4.879E-01
13.105	4.347E+00	4.934E-01
13.110	4.330E+00	4.925E-01
13.115	4.297E+00	4.865E-01
13.120	4.303E+00	4.841E-01
13.125	4.307E+00	4.816E-01
13.130	4.304E+00	4.825E-01
13.135	4.263E+00	4.838E-01
13.140	4.255E+00	4.833E-01
13.145	4.252E+00	4.819E-01
13.150	4.231E+00	4.833E-01
13.155	4.204E+00	4.842E-01

TIME	CO	H2S
13.160	4.150E+00	4.786E-01
13.165	4.142E+00	4.789E-01
13.170	4.188E+00	4.809E-01
13.175	4.143E+00	4.838E-01
13.180	4.113E+00	4.824E-01
13.185	4.118E+00	4.787E-01
13.190	4.091E+00	4.764E-01
13.195	3.911E+00	4.764E-01
13.200	3.802E+00	4.590E-01
13.205	3.710E+00	4.499E-01
13.210	3.697E+00	4.429E-01
13.215	3.624E+00	4.449E-01
13.220	3.538E+00	4.314E-01
13.225	3.528E+00	4.220E-01
13.230	3.546E+00	4.250E-01
13.235	3.643E+00	4.342E-01
13.240	3.808E+00	4.470E-01
13.245	3.803E+00	4.547E-01
13.250	3.813E+00	4.581E-01
13.255	3.840E+00	4.635E-01
13.260	3.803E+00	4.638E-01
13.265	3.797E+00	4.628E-01
13.270	3.741E+00	4.594E-01
13.275	3.636E+00	4.406E-01
13.280	3.619E+00	4.350E-01
13.285	3.582E+00	4.383E-01
13.290	3.628E+00	4.442E-01
13.295	3.639E+00	4.437E-01
13.300	3.650E+00	4.408E-01
13.305	3.601E+00	4.393E-01
13.310	3.610E+00	4.382E-01
13.315	3.600E+00	4.457E-01
13.320	3.578E+00	4.505E-01
13.325	3.626E+00	4.540E-01
13.330	3.598E+00	4.592E-01
13.335	3.588E+00	4.600E-01
13.340	3.582E+00	4.592E-01
13.345	3.550E+00	4.563E-01
13.350	3.556E+00	4.548E-01
13.355	3.595E+00	4.594E-01
13.360	3.635E+00	4.607E-01
13.365	3.647E+00	4.633E-01
13.370	3.678E+00	4.656E-01
13.375	3.736E+00	4.680E-01
13.380	3.734E+00	4.704E-01
13.385	3.758E+00	4.751E-01
13.390	3.762E+00	4.753E-01
13.395	3.742E+00	4.747E-01
13.400	3.750E+00	4.740E-01
13.405	3.734E+00	4.693E-01
13.410	3.748E+00	4.664E-01
13.415	3.770E+00	4.657E-01
13.420	3.779E+00	4.653E-01
13.425	3.785E+00	4.651E-01
13.430	3.790E+00	4.625E-01
13.435	3.809E+00	4.615E-01
13.440	3.833E+00	4.634E-01
13.445	3.845E+00	4.651E-01
13.450	3.867E+00	4.680E-01
13.455	3.937E+00	4.723E-01
13.460	3.967E+00	4.776E-01
13.465	4.019E+00	4.805E-01
13.470	3.980E+00	4.830E-01
13.475	4.006E+00	4.806E-01
13.480	4.012E+00	4.808E-01
13.485	3.999E+00	4.810E-01
13.490	4.001E+00	4.769E-01
13.495	4.019E+00	4.712E-01
13.500	4.007E+00	4.673E-01
13.505	4.022E+00	4.634E-01
13.510	4.011E+00	4.609E-01
13.515	4.027E+00	4.515E-01

TIME	CO	H2S
13.520	4.059E+00	4.499E-01
13.525	4.046E+00	4.493E-01
13.530	3.994E+00	4.413E-01
13.535	3.900E+00	4.280E-01
13.540	3.771E+00	4.135E-01
13.545	3.761E+00	4.097E-01
13.550	3.792E+00	4.101E-01
13.555	3.789E+00	4.113E-01
13.560	3.736E+00	4.119E-01
13.565	3.740E+00	4.221E-01
13.570	3.715E+00	4.203E-01
13.575	3.743E+00	4.279E-01
13.580	3.725E+00	4.308E-01
13.585	3.701E+00	4.255E-01
13.590	3.645E+00	4.212E-01
13.595	3.618E+00	4.197E-01
14.000	3.607E+00	4.179E-01
14.005	3.620E+00	4.148E-01
14.010	3.576E+00	4.144E-01
14.015	3.536E+00	4.072E-01
14.020	3.519E+00	3.999E-01
14.025	3.516E+00	3.962E-01
14.030	3.518E+00	3.992E-01
14.035	3.496E+00	3.922E-01
14.040	3.490E+00	3.890E-01
14.045	3.522E+00	3.983E-01
14.050	3.496E+00	3.992E-01
14.055	3.473E+00	3.962E-01
14.060	3.447E+00	3.972E-01
14.065	3.461E+00	4.027E-01
14.070	3.464E+00	4.088E-01
14.075	3.412E+00	4.104E-01
14.080	3.392E+00	4.066E-01
14.085	3.367E+00	4.026E-01
14.090	3.381E+00	4.052E-01
14.095	3.362E+00	4.073E-01
14.100	3.318E+00	3.998E-01
14.105	3.294E+00	3.971E-01
14.110	3.270E+00	3.962E-01
14.115	3.241E+00	3.958E-01
14.120	3.232E+00	3.951E-01
14.125	3.226E+00	3.959E-01
14.130	3.235E+00	3.957E-01
14.135	3.269E+00	3.920E-01
14.140	3.246E+00	3.870E-01
14.145	3.211E+00	3.840E-01
14.150	3.202E+00	3.833E-01
14.155	3.137E+00	3.793E-01
14.160	3.144E+00	3.740E-01
14.165	3.101E+00	3.692E-01
14.170	3.100E+00	3.656E-01
14.175	3.070E+00	3.657E-01
14.180	3.081E+00	3.672E-01
14.185	3.098E+00	3.671E-01
14.190	3.081E+00	3.660E-01
14.195	3.070E+00	3.652E-01
14.200	3.066E+00	3.637E-01
14.205	3.055E+00	3.626E-01
14.210	3.060E+00	3.634E-01
14.215	3.079E+00	3.666E-01
14.220	3.154E+00	3.714E-01
14.225	3.170E+00	3.758E-01
14.230	3.218E+00	3.799E-01
14.235	3.688E+00	3.832E-01
14.240	3.700E+00	3.829E-01
14.245	3.709E+00	3.766E-01
14.250	3.679E+00	3.697E-01
14.255	3.675E+00	3.616E-01
14.260	3.679E+00	3.563E-01
14.265	3.664E+00	3.410E-01
14.270	3.687E+00	3.433E-01
14.275	3.667E+00	3.382E-01

TIME	CO	H2S
14.280	3.674E+00	3.333E-01
14.285	3.695E+00	3.287E-01
14.290	3.697E+00	3.215E-01
14.295	3.794E+00	3.171E-01
14.300	3.817E+00	3.167E-01
14.305	3.849E+00	3.172E-01
14.310	3.906E+00	3.157E-01
14.315	3.954E+00	3.178E-01
14.320	3.968E+00	3.201E-01
14.325	3.940E+00	3.195E-01
14.330	3.934E+00	3.071E-01
14.335	3.947E+00	3.067E-01
14.340	3.946E+00	3.059E-01
14.345	3.921E+00	2.945E-01
14.350	3.935E+00	2.909E-01
14.355	3.952E+00	2.886E-01
14.360	3.994E+00	2.887E-01
14.365	4.016E+00	2.854E-01
14.370	4.058E+00	2.916E-01
14.375	4.089E+00	2.951E-01
14.380	4.151E+00	3.044E-01
14.385	4.218E+00	3.097E-01
14.390	4.229E+00	3.167E-01
14.395	4.253E+00	3.228E-01
14.400	4.276E+00	3.258E-01
14.405	4.310E+00	3.312E-01
14.410	4.327E+00	3.346E-01
14.415	4.352E+00	3.405E-01
14.420	4.398E+00	3.484E-01
14.425	4.418E+00	3.545E-01
14.430	4.404E+00	3.580E-01
14.435	4.355E+00	3.607E-01
14.440	4.419E+00	3.713E-01
14.445	4.455E+00	3.811E-01
14.450	4.471E+00	3.869E-01
14.455	4.497E+00	3.958E-01
14.460	4.469E+00	3.993E-01
14.465	4.463E+00	4.008E-01
14.470	4.486E+00	4.013E-01
14.475	4.489E+00	4.007E-01
14.480	4.462E+00	3.994E-01
14.485	4.449E+00	4.083E-01
14.490	4.449E+00	4.116E-01
14.495	4.451E+00	4.145E-01
14.500	4.449E+00	4.164E-01
14.505	4.465E+00	4.179E-01
14.510	4.459E+00	4.246E-01
14.515	4.435E+00	4.271E-01
14.520	4.342E+00	4.257E-01
14.525	4.318E+00	4.293E-01
14.530	4.277E+00	4.287E-01
14.535	3.799E+00	4.275E-01
14.540	3.753E+00	4.275E-01
14.545	3.739E+00	4.294E-01
14.550	3.765E+00	4.332E-01
14.555	3.769E+00	4.396E-01
14.560	3.772E+00	4.464E-01
14.565	3.783E+00	4.507E-01
14.570	3.749E+00	4.495E-01
14.575	3.729E+00	4.516E-01
14.580	3.745E+00	4.537E-01
14.585	3.729E+00	4.589E-01
14.590	3.748E+00	4.621E-01
14.595	3.675E+00	4.688E-01
15.000	3.645E+00	4.724E-01
15.005	3.621E+00	4.735E-01
15.010	3.591E+00	4.758E-01
15.015	3.566E+00	4.769E-01
15.020	3.571E+00	4.757E-01
15.025	3.566E+00	4.766E-01
15.030	3.571E+00	4.776E-01
15.035	3.565E+00	4.772E-01

TIME	CO	H2S
15.040	3.578E+00	4.801E-01
15.045	3.580E+00	4.838E-01
15.050	3.579E+00	4.872E-01
15.055	3.578E+00	4.882E-01
15.060	3.548E+00	4.858E-01
15.065	3.515E+00	4.824E-01
15.070	3.473E+00	4.700E-01
15.075	3.478E+00	4.672E-01
15.080	3.450E+00	4.591E-01
15.085	3.393E+00	4.559E-01
15.090	3.423E+00	4.456E-01
15.095	3.442E+00	4.441E-01
15.100	3.447E+00	4.460E-01
15.105	3.455E+00	4.431E-01
15.110	3.469E+00	4.441E-01
15.115	3.456E+00	4.406E-01
15.120	3.445E+00	4.362E-01
15.125	3.440E+00	4.340E-01
15.130	3.462E+00	4.355E-01
15.135	3.476E+00	4.370E-01
15.140	3.479E+00	4.338E-01
15.145	3.509E+00	4.360E-01
15.150	3.531E+00	4.329E-01
15.155	3.527E+00	4.308E-01
15.160	3.545E+00	4.353E-01
15.165	3.600E+00	4.381E-01
15.170	3.624E+00	4.436E-01
15.175	3.631E+00	4.458E-01
15.180	3.673E+00	4.492E-01
15.185	3.708E+00	4.496E-01
15.190	3.741E+00	4.587E-01
15.195	3.770E+00	4.626E-01
15.200	3.810E+00	4.678E-01
15.205	3.823E+00	4.757E-01
15.210	3.834E+00	4.751E-01
15.215	3.850E+00	4.739E-01
15.220	3.862E+00	4.742E-01
15.225	3.880E+00	4.705E-01
15.230	3.894E+00	4.709E-01
15.235	3.941E+00	4.731E-01
15.240	3.949E+00	4.769E-01
15.245	3.958E+00	4.782E-01
15.250	3.933E+00	4.774E-01
15.255	3.918E+00	4.739E-01
15.260	3.925E+00	4.707E-01
15.265	3.901E+00	4.670E-01
15.270	3.901E+00	4.618E-01
15.275	3.913E+00	4.596E-01
15.280	3.902E+00	4.593E-01
15.285	3.904E+00	4.605E-01
15.290	3.893E+00	4.636E-01
15.295	3.906E+00	4.638E-01
15.300	3.904E+00	4.663E-01
15.305	3.890E+00	4.696E-01
15.310	3.873E+00	4.711E-01
15.315	3.864E+00	4.726E-01
15.320	3.866E+00	4.752E-01
15.325	3.869E+00	4.802E-01
15.330	3.859E+00	4.827E-01
15.335	3.853E+00	4.831E-01
15.340	3.840E+00	4.830E-01
15.345	3.823E+00	4.829E-01
15.350	3.823E+00	4.837E-01
15.355	3.816E+00	4.848E-01
15.360	3.803E+00	4.872E-01
15.365	3.773E+00	4.876E-01
15.370	3.769E+00	4.878E-01
15.375	3.751E+00	4.920E-01
15.380	3.757E+00	5.015E-01
15.385	3.737E+00	5.097E-01
15.390	3.664E+00	5.101E-01
15.395	3.610E+00	5.055E-01

TIME	CO	H2S
15.400	3.587E+00	5.006E-01
15.405	3.595E+00	5.101E-01
15.410	3.574E+00	5.111E-01
15.415	3.565E+00	5.110E-01
15.420	3.537E+00	5.094E-01
15.425	3.515E+00	5.065E-01
15.430	3.485E+00	5.023E-01
15.435	3.446E+00	4.974E-01
15.440	3.369E+00	4.915E-01
15.445	3.312E+00	4.824E-01
15.450	3.266E+00	4.827E-01
15.455	3.247E+00	4.792E-01
15.460	3.233E+00	4.738E-01
15.465	3.175E+00	4.716E-01
15.470	3.128E+00	4.645E-01
15.475	3.107E+00	4.624E-01
15.480	3.073E+00	4.586E-01
15.485	3.025E+00	4.526E-01
15.490	2.986E+00	4.419E-01
15.495	2.973E+00	4.382E-01
15.500	2.938E+00	4.365E-01
15.505	2.915E+00	4.316E-01
15.510	2.923E+00	4.282E-01
15.515	2.903E+00	4.252E-01
15.520	2.886E+00	4.215E-01
15.525	2.883E+00	4.180E-01
15.530	2.876E+00	4.164E-01
15.535	2.838E+00	4.149E-01
15.540	2.830E+00	4.105E-01
15.545	2.821E+00	4.071E-01
15.550	2.808E+00	4.048E-01
15.555	2.788E+00	4.020E-01
15.560	2.797E+00	3.981E-01
15.565	2.805E+00	3.984E-01
15.570	2.802E+00	3.975E-01
15.575	2.784E+00	3.910E-01
15.580	2.768E+00	3.863E-01
15.585	2.754E+00	3.789E-01
15.590	2.734E+00	3.720E-01
15.595	2.712E+00	3.642E-01
16.000	2.726E+00	3.565E-01
16.005	2.718E+00	3.524E-01
16.010	2.713E+00	3.505E-01
16.015	2.723E+00	3.445E-01
16.020	2.695E+00	3.418E-01
16.025	2.685E+00	3.351E-01
16.030	2.689E+00	3.327E-01
16.035	2.691E+00	3.324E-01
16.040	2.692E+00	3.297E-01
16.045	2.697E+00	3.264E-01
16.050	2.680E+00	3.212E-01
16.055	2.694E+00	3.205E-01
16.060	2.692E+00	3.200E-01
16.065	2.714E+00	3.207E-01
16.070	2.711E+00	3.202E-01
16.075	2.692E+00	3.114E-01
16.080	2.676E+00	2.999E-01
16.085	2.704E+00	2.890E-01
16.090	2.726E+00	2.901E-01
16.095	2.749E+00	2.882E-01
16.100	2.758E+00	2.886E-01
16.105	2.731E+00	2.791E-01
16.110	2.731E+00	2.791E-01
16.115	2.749E+00	2.763E-01
16.120	2.771E+00	2.774E-01
16.125	2.792E+00	2.778E-01
16.130	2.807E+00	2.771E-01
16.135	2.836E+00	2.771E-01
16.140	2.843E+00	2.758E-01
16.145	2.838E+00	2.733E-01
16.150	2.836E+00	2.658E-01
16.155	2.831E+00	2.611E-01

TIME	CO	H2S
16.160	2.833E+00	2.576E-01
16.165	2.829E+00	2.540E-01
16.170	2.817E+00	2.528E-01
16.175	2.822E+00	2.502E-01
16.180	2.824E+00	2.458E-01
16.185	2.852E+00	2.405E-01
16.190	2.859E+00	2.382E-01
16.195	2.844E+00	2.329E-01
16.200	2.842E+00	2.263E-01
16.205	2.843E+00	2.213E-01
16.210	2.832E+00	2.163E-01
16.215	2.831E+00	2.125E-01
16.220	2.843E+00	2.102E-01
16.225	2.827E+00	2.069E-01
16.230	2.945E+00	2.031E-01
16.235	2.933E+00	1.992E-01
16.240	2.912E+00	1.968E-01
16.245	2.893E+00	1.952E-01
16.250	2.875E+00	1.933E-01
16.255	2.864E+00	1.921E-01
16.260	2.828E+00	1.912E-01
16.265	2.800E+00	1.890E-01
16.270	2.777E+00	1.875E-01
16.275	2.771E+00	1.858E-01
16.280	2.786E+00	1.850E-01
16.285	2.777E+00	1.841E-01
16.290	2.805E+00	1.832E-01
16.295	2.827E+00	1.827E-01
16.300	2.807E+00	1.842E-01
16.305	2.793E+00	1.799E-01
16.310	2.784E+00	1.751E-01
16.315	2.774E+00	1.749E-01
16.320	2.774E+00	1.746E-01
16.325	2.761E+00	1.741E-01
16.330	2.745E+00	1.731E-01
16.335	2.740E+00	1.724E-01
16.340	2.718E+00	1.726E-01
16.345	2.701E+00	1.726E-01
16.350	2.702E+00	1.734E-01
16.355	2.707E+00	1.723E-01
16.360	2.720E+00	1.720E-01
16.365	2.732E+00	1.715E-01
16.370	2.713E+00	1.720E-01
16.375	2.751E+00	1.720E-01
16.380	2.756E+00	1.738E-01
16.385	2.728E+00	1.781E-01
16.390	2.718E+00	1.865E-01
16.395	2.691E+00	1.876E-01
16.400	2.669E+00	1.863E-01
16.405	2.663E+00	1.832E-01
16.410	2.656E+00	1.795E-01
16.415	2.634E+00	1.811E-01
16.420	2.584E+00	1.772E-01
16.425	2.560E+00	1.757E-01
16.430	2.556E+00	1.766E-01
16.435	2.532E+00	1.766E-01
16.440	2.524E+00	1.768E-01
16.445	2.513E+00	1.773E-01
16.450	2.509E+00	1.785E-01
16.455	2.514E+00	1.793E-01
16.460	2.492E+00	1.798E-01
16.465	2.488E+00	1.796E-01
16.470	2.476E+00	1.786E-01
16.475	2.469E+00	1.780E-01
16.480	2.493E+00	1.796E-01
16.485	2.484E+00	1.818E-01
16.490	2.486E+00	1.917E-01
16.495	2.477E+00	1.932E-01
16.500	2.467E+00	1.946E-01
16.505	2.455E+00	1.953E-01
16.510	2.437E+00	1.964E-01
16.515	2.430E+00	1.978E-01

TIME	CO	H2S
16.520	2.404E+00	1.989E-01
16.525	2.399E+00	1.998E-01
16.530	2.274E+00	2.011E-01
16.535	2.288E+00	2.036E-01
16.540	2.309E+00	2.058E-01
16.545	2.325E+00	2.074E-01
16.550	2.339E+00	2.083E-01
16.555	2.336E+00	2.086E-01
16.560	2.345E+00	2.097E-01
16.565	2.352E+00	2.099E-01
16.570	2.358E+00	2.100E-01
16.575	2.351E+00	2.107E-01
16.580	2.331E+00	2.110E-01
16.585	2.327E+00	2.116E-01
16.590	2.302E+00	2.119E-01
16.595	2.268E+00	2.130E-01
17.000	2.258E+00	2.106E-01
17.005	2.252E+00	2.099E-01
17.010	2.244E+00	2.093E-01
17.015	2.237E+00	2.071E-01
17.020	2.235E+00	2.048E-01
17.025	2.236E+00	2.036E-01
17.030	2.230E+00	2.017E-01
17.035	2.202E+00	1.992E-01
17.040	2.201E+00	1.965E-01
17.045	2.207E+00	1.951E-01
17.050	2.210E+00	1.940E-01
17.055	2.172E+00	1.915E-01
17.060	2.167E+00	1.878E-01
17.065	2.093E+00	1.825E-01
17.070	2.058E+00	1.772E-01
17.075	1.986E+00	1.731E-01
17.080	1.921E+00	1.677E-01
17.085	1.884E+00	1.593E-01
17.090	1.841E+00	1.441E-01
17.095	1.815E+00	1.387E-01
17.100	1.791E+00	1.352E-01

STATISTICS

POLLUTANT	NUMBER OF READINGS	ARITHMETIC MEAN	STANDARD DEVIATION	GEOMETRIC MEAN	GEOMETRIC STANDARD DEVIATION
CO	611	3.434E+00	6.188E-01	3.378E+00	1.209E+00
H2S	611	3.691E-01	1.157E-01	3.476E-01	1.452E+00

SURVEY: FT FRANCES #18

DATE NOV 15 1974 SCAN TIME 120 SEC AVERAGING TIME 30 MIN

TIME	CO	H2S	SO2
19.000	1.355E+00	1.367E-01	1.762E-03
19.020	1.369E+00	1.412E-01	1.950E-03
19.040	1.339E+00	1.472E-01	2.475E-03
19.060	1.346E+00	1.521E-01	3.000E-03
19.080	1.342E+00	1.564E-01	3.526E-03
19.100	1.333E+00	1.678E-01	4.051E-03
19.120	1.200E+00	1.720E-01	4.589E-03
19.140	1.173E+00	1.829E-01	5.209E-03
19.160	1.172E+00	1.905E-01	3.883E-03
19.180	1.150E+00	2.077E-01	4.414E-03
19.200	1.141E+00	2.189E-01	4.591E-03
19.220	1.173E+00	2.220E-01	4.768E-03
19.240	1.169E+00	2.292E-01	4.946E-03
19.260	1.210E+00	2.367E-01	5.124E-03
19.280	1.265E+00	2.313E-01	5.301E-03
19.300	1.334E+00	2.262E-01	5.478E-03
19.320	1.392E+00	2.207E-01	5.654E-03
19.340	1.496E+00	2.157E-01	5.831E-03
19.360	1.510E+00	2.113E-01	6.008E-03
19.380	1.523E+00	2.054E-01	6.184E-03
19.400	1.579E+00	1.962E-01	6.368E-03
19.420	1.584E+00	1.960E-01	6.545E-03
19.440	1.551E+00	1.902E-01	6.722E-03
19.460	1.546E+00	1.815E-01	6.988E-03
19.480	1.547E+00	1.670E-01	7.262E-03
19.500	1.559E+00	1.598E-01	1.937E-02
19.520	1.546E+00	1.540E-01	1.955E-02
19.540	1.545E+00	1.488E-01	1.972E-02
19.560	1.496E+00	1.421E-01	1.990E-02
19.580	1.447E+00	1.461E-01	2.008E-02
20.000	1.380E+00	1.497E-01	2.026E-02
20.020	1.302E+00	1.560E-01	2.043E-02
20.040	1.229E+00	1.596E-01	2.061E-02
20.060	1.216E+00	1.636E-01	2.079E-02
20.080	1.194E+00	1.703E-01	2.097E-02
20.100	1.142E+00	1.758E-01	2.114E-02
20.120	1.128E+00	1.809E-01	2.131E-02
20.140	1.116E+00	1.802E-01	2.140E-02
20.160	1.107E+00	1.772E-01	2.140E-02
20.180	1.090E+00	1.767E-01	2.139E-02
20.200	1.082E+00	1.800E-01	9.463E-03
20.220	1.062E+00	1.792E-01	9.729E-03
20.240	1.057E+00	1.767E-01	9.911E-03
20.260	1.045E+00	1.741E-01	1.009E-02
20.280	1.027E+00	1.715E-01	1.018E-02
20.300	1.039E+00	1.718E-01	1.027E-02
20.320	1.046E+00	1.721E-01	1.028E-02
20.340	1.041E+00	1.715E-01	1.029E-02
20.360	1.021E+00	1.694E-01	1.030E-02
20.380	1.013E+00	1.698E-01	1.031E-02
20.400	9.925E-01	1.672E-01	1.032E-02
20.420	9.932E-01	1.651E-01	1.033E-02
20.440	9.819E-01	1.604E-01	1.034E-02
20.460	9.755E-01	1.605E-01	1.035E-02
20.480	9.708E-01	1.604E-01	1.036E-02
20.500	9.486E-01	1.546E-01	1.037E-02
20.520	9.545E-01	1.463E-01	1.020E-02
20.540	9.305E-01	1.392E-01	1.002E-02
20.560	9.379E-01	1.356E-01	9.756E-03
20.580	9.094E-01	1.290E-01	9.579E-03
21.000	9.059E-01	1.242E-01	9.402E-03
21.020	9.006E-01	1.161E-01	9.304E-03
21.040	8.954E-01	1.087E-01	9.133E-03
21.060	9.173E-01	1.062E-01	8.960E-03
21.080	1.022E+00	9.999E-02	8.786E-03
21.100	1.051E+00	9.433E-02	8.613E-03
21.120	1.071E+00	8.507E-02	8.438E-03
21.140	1.105E+00	8.278E-02	8.265E-03
21.160	1.098E+00	7.789E-02	8.091E-03
21.180	1.104E+00	7.396E-02	7.917E-03

TIME	CO	H2S	SO2
21.200	1.086E+00	7.296E-02	7.743E-03
21.220	1.144E+00	7.244E-02	7.488E-03
21.240	1.175E+00	7.615E-02	7.315E-03
21.260	1.166E+00	7.727E-02	7.236E-03
21.280	1.180E+00	7.720E-02	7.156E-03
21.300	1.166E+00	7.476E-02	7.076E-03
21.320	1.147E+00	7.541E-02	6.994E-03
21.340	1.124E+00	7.739E-02	6.980E-03
21.360	1.083E+00	7.859E-02	6.968E-03
21.380	9.566E-01	7.916E-02	6.956E-03
21.400	9.232E-01	7.721E-02	6.854E-03
21.420	8.644E-01	8.014E-02	6.754E-03
21.440	8.098E-01	7.848E-02	6.653E-03
21.460	8.008E-01	7.671E-02	6.553E-03
21.480	7.686E-01	7.495E-02	6.453E-03
21.500	7.711E-01	7.512E-02	6.352E-03
21.520	6.964E-01	7.590E-02	6.252E-03
21.540	6.492E-01	7.159E-02	6.152E-03
21.560	6.120E-01	7.125E-02	6.055E-03
21.580	5.853E-01	7.274E-02	5.959E-03
22.000	5.650E-01	7.242E-02	5.862E-03
22.020	5.680E-01	7.351E-02	5.767E-03
22.040	5.588E-01	7.560E-02	5.678E-03
22.060	5.594E-01	7.112E-02	5.589E-03
22.080	5.591E-01	6.771E-02	5.499E-03
22.100	5.478E-01	6.607E-02	5.500E-03
22.120	6.176E-01	6.144E-02	5.499E-03
22.140	6.410E-01	5.986E-02	5.499E-03
22.160	6.387E-01	5.959E-02	5.499E-03
22.180	6.330E-01	5.866E-02	5.499E-03
22.200	6.217E-01	5.492E-02	5.499E-03
22.220	6.136E-01	5.080E-02	5.499E-03
22.240	6.045E-01	4.992E-02	5.499E-03
22.260	6.158E-01	4.795E-02	5.499E-03
22.280	6.224E-01	4.617E-02	5.499E-03
22.300	6.070E-01	4.570E-02	5.499E-03
22.320	6.115E-01	4.410E-02	5.499E-03
22.340	6.211E-01	5.006E-02	5.499E-03
22.360	6.016E-01	5.267E-02	5.499E-03
22.380	6.072E-01	5.395E-02	5.499E-03
22.400	5.974E-01	5.945E-02	5.498E-03
22.420	5.435E-01	6.035E-02	5.499E-03
22.440	5.247E-01	6.060E-02	5.499E-03
22.460	5.099E-01	6.013E-02	5.499E-03
22.480	4.943E-01	5.937E-02	5.499E-03
22.500	4.590E-01	5.714E-02	5.499E-03
22.520	4.328E-01	5.552E-02	5.498E-03
22.540	4.168E-01	5.440E-02	5.498E-03
22.560	4.123E-01	5.245E-02	5.498E-03
22.580	3.887E-01	4.955E-02	5.498E-03
23.000	3.951E-01	4.801E-02	5.499E-03
23.020	3.993E-01	4.507E-02	5.499E-03
23.040	3.886E-01	3.313E-02	5.499E-03
23.060	3.852E-01	2.841E-02	5.499E-03
23.080	3.643E-01	2.497E-02	5.499E-03
23.100	3.580E-01	1.814E-02	5.499E-03
23.120	3.395E-01	1.580E-02	5.499E-03
23.140	3.279E-01	1.399E-02	5.499E-03
23.160	3.299E-01	1.260E-02	5.499E-03
23.180	3.403E-01	1.141E-02	5.499E-03
23.200	3.641E-01	1.045E-02	5.499E-03
23.220	3.923E-01	9.629E-03	5.499E-03
23.240	4.332E-01	8.882E-03	5.499E-03
23.260	4.461E-01	8.206E-03	5.499E-03
23.280	4.494E-01	7.628E-03	5.411E-03
23.300	4.234E-01	7.097E-03	5.324E-03
23.320	3.959E-01	6.776E-03	5.059E-03
23.340	3.754E-01	6.389E-03	4.618E-03
23.360	3.865E-01	5.958E-03	4.177E-03
23.380	4.033E-01	5.579E-03	3.736E-03
23.400	4.159E-01	6.753E-03	3.294E-03
23.420	4.018E-01	7.327E-03	2.853E-03

TIME	CO	H2S	SO2
23.440	4.292E-01	8.298E-03	2.411E-03
23.460	4.348E-01	1.092E-02	1.969E-03
23.480	4.288E-01	1.299E-02	1.528E-03
23.500	4.436E-01	1.517E-02	1.093E-03
23.520	4.383E-01	1.764E-02	7.409E-04
23.540	3.992E-01	1.868E-02	3.886E-04
23.560	3.968E-01	1.921E-02	3.561E-05
23.580	3.772E-01	1.974E-02	-1.403E-04
24.000	3.826E-01	2.000E-02	-3.172E-04
24.020	1.100E+00	1.295E-01	3.317E-02
24.040	1.109E+00	1.296E-01	3.334E-02
24.060	1.077E+00	1.297E-01	3.352E-02
24.080	1.042E+00	1.299E-01	3.370E-02
24.100	1.043E+00	1.284E-01	3.388E-02
24.120	1.030E+00	1.275E-01	3.405E-02
24.140	9.877E-01	1.270E-01	3.423E-02
24.160	9.722E-01	1.243E-01	3.441E-02
24.180	9.676E-01	1.221E-01	3.459E-02
24.200	9.413E-01	1.198E-01	3.476E-02
24.220	9.296E-01	1.174E-01	3.485E-02
24.240	9.262E-01	1.170E-01	3.493E-02
24.260	8.951E-01	1.168E-01	3.502E-02
24.280	8.966E-01	1.168E-01	3.502E-02
24.300	8.839E-01	1.166E-01	3.502E-02
24.320	1.706E-01	7.121E-03	1.542E-03
24.340	1.576E-01	6.997E-03	1.542E-03
24.360	1.542E-01	6.851E-03	1.542E-03
24.380	1.544E-01	7.266E-03	1.542E-03
24.400	1.168E-01	7.340E-03	1.542E-03
24.420	1.208E-01	7.296E-03	1.542E-03
24.440	8.786E-02	6.432E-03	1.541E-03
24.460	6.687E-02	6.184E-03	1.541E-03
24.480	5.728E-02	5.929E-03	1.541E-03
24.500	5.526E-02	5.781E-03	1.541E-03
24.520	4.291E-02	5.401E-03	1.541E-03
24.540	3.899E-02	4.488E-03	1.541E-03
24.560	3.256E-02	3.869E-03	1.541E-03
24.580	3.854E-02	3.000E-03	1.541E-03
1.000	3.796E-02	2.639E-03	1.540E-03
1.020	8.314E-03	2.267E-03	1.540E-03
1.040	8.021E-03	1.998E-03	1.540E-03
1.060	4.253E-02	1.834E-03	1.540E-03
1.080	5.962E-02	1.138E-03	1.540E-03
1.100	1.008E-01	8.539E-04	1.541E-03
1.120	1.122E-01	7.270E-04	1.540E-03
1.140	1.281E-01	6.678E-04	1.541E-03
1.160	1.446E-01	6.539E-04	1.540E-03
1.180	1.438E-01	6.305E-04	1.541E-03
1.200	1.661E-01	6.315E-04	1.541E-03
1.220	1.831E-01	6.779E-04	1.541E-03
1.240	2.037E-01	7.654E-04	1.541E-03
1.260	2.175E-01	8.513E-04	1.541E-03
1.280	2.253E-01	9.259E-04	1.541E-03
1.300	2.346E-01	9.985E-04	1.542E-03
1.320	2.594E-01	1.051E-03	1.542E-03
1.340	2.669E-01	1.108E-03	1.542E-03
1.360	2.617E-01	1.210E-03	1.542E-03
1.380	2.763E-01	1.284E-03	1.542E-03
1.400	2.622E-01	1.361E-03	1.542E-03
1.420	2.812E-01	1.450E-03	1.542E-03
1.440	3.121E-01	1.525E-03	1.543E-03
1.460	3.175E-01	1.626E-03	1.543E-03
1.480	3.219E-01	1.706E-03	1.543E-03
1.500	3.119E-01	1.798E-03	1.543E-03
1.520	3.014E-01	1.873E-03	1.543E-03
1.540	2.844E-01	1.943E-03	1.543E-03
1.560	2.541E-01	2.009E-03	1.543E-03
1.580	2.383E-01	2.062E-03	1.543E-03
2.000	2.395E-01	2.119E-03	1.543E-03
2.020	2.237E-01	2.162E-03	1.543E-03
2.040	2.244E-01	2.177E-03	1.543E-03
2.060	2.078E-01	2.173E-03	1.543E-03

TIME	CO	H2S	SO2
2.080	1.996E-01	2.100E-03	1.543E-03
2.100	1.768E-01	2.826E-03	1.543E-03
2.120	1.452E-01	5.103E-03	1.543E-03
2.140	1.315E-01	7.702E-03	1.543E-03
2.160	1.193E-01	1.049E-02	1.543E-03
2.180	1.091E-01	1.140E-02	1.543E-03
2.200	9.525E-02	1.386E-02	1.543E-03
2.220	9.504E-02	1.444E-02	1.543E-03
2.240	1.273E-01	1.484E-02	1.543E-03
2.260	1.494E-01	1.562E-02	1.544E-03
2.280	1.480E-01	1.693E-02	1.544E-03
2.300	1.524E-01	1.788E-02	1.544E-03
2.320	1.468E-01	1.830E-02	1.544E-03
2.340	1.380E-01	1.858E-02	1.545E-03
2.360	1.284E-01	1.876E-02	1.545E-03
2.380	1.527E-01	1.896E-02	1.546E-03
2.400	1.625E-01	1.841E-02	1.545E-03
2.420	1.688E-01	1.933E-02	1.546E-03
2.440	1.734E-01	1.906E-02	1.546E-03
2.460	1.763E-01	1.801E-02	1.546E-03
2.480	1.766E-01	1.887E-02	1.546E-03
2.500	1.801E-01	1.842E-02	1.552E-03
2.520	1.796E-01	2.173E-02	1.640E-03
2.540	1.457E-01	2.283E-02	1.728E-03
2.560	1.467E-01	2.636E-02	1.816E-03
2.580	1.430E-01	2.690E-02	1.904E-03
3.000	1.327E-01	2.939E-02	1.991E-03
3.020	1.307E-01	3.182E-02	2.079E-03
3.040	1.202E-01	3.245E-02	2.167E-03
3.060	1.378E-01	3.294E-02	2.255E-03
3.080	8.772E-02	3.776E-02	2.342E-03
3.100	6.933E-02	3.851E-02	2.430E-03
3.120	5.229E-02	3.587E-02	2.518E-03
3.140	3.050E-02	3.396E-02	2.606E-03
3.160	1.329E-02	3.254E-02	2.693E-03
3.180	1.042E-02	3.098E-02	2.781E-03
3.200	-2.454E-03	2.914E-02	2.863E-03
3.220	-1.121E-02	2.538E-02	2.863E-03
3.240	-1.761E-02	2.394E-02	2.863E-03
3.260	-2.068E-02	1.966E-02	2.863E-03
3.280	-1.355E-02	1.782E-02	2.863E-03
3.300	-1.675E-02	1.434E-02	2.864E-03
3.320	-1.609E-02	1.142E-02	2.864E-03
3.340	-9.943E-03	1.079E-02	2.864E-03
3.360	-2.228E-02	1.012E-02	2.864E-03
3.380	-2.057E-02	5.084E-03	2.864E-03
3.400	8.233E-03	4.365E-03	2.864E-03
3.420	1.650E-02	3.777E-03	2.864E-03
3.440	3.104E-02	3.275E-03	2.864E-03
3.460	3.633E-02	2.809E-03	2.865E-03
3.480	3.839E-02	2.478E-03	2.865E-03
3.500	3.750E-02	2.211E-03	2.865E-03
3.520	3.802E-02	2.003E-03	2.865E-03
3.540	3.310E-02	1.873E-03	2.865E-03
3.560	1.930E-02	1.756E-03	2.865E-03
3.580	1.324E-02	1.720E-03	2.866E-03
4.000	6.674E-03	1.736E-03	2.866E-03
4.020	4.544E-03	1.784E-03	2.866E-03
4.040	9.656E-03	1.528E-03	2.866E-03
4.060	5.867E-03	1.568E-03	2.866E-03
4.080	3.030E-03	1.677E-03	2.866E-03
4.100	-1.876E-02	1.468E-03	2.867E-03
4.120	-1.063E-02	1.656E-03	2.867E-03
4.140	-1.366E-02	3.442E-03	2.867E-03
4.160	4,388E-03	5.827E-03	2.956E-03
4.180	9.211E-03	6.733E-03	3.133E-03
4.200	7.779E-03	7.093E-03	3.310E-03
4.220	1.458E-02	8.371E-03	3.487E-03
4.240	2.373E-02	8.812E-03	3.664E-03
4.260	3.824E-02	9.098E-03	3.841E-03
4.280	4.436E-02	1.047E-02	4.018E-03
4.300	6.779E-02	1.151E-02	4.195E-03

TIME	CO	H2S	SO2
4.320	6.151E-02	1.172E-02	4.372E-03
4.340	5.669E-02	1.185E-02	4.549E-03
4.360	5.484E-02	1.287E-02	4.726E-03
4.380	6.649E-02	1.819E-02	4.903E-03
4.400	7.173E-02	2.077E-02	5.079E-03
4.420	6.201E-02	2.134E-02	5.256E-03
4.440	5.713E-02	2.006E-02	5.433E-03
4.460	4.944E-02	1.843E-02	5.521E-03
4.480	6.051E-02	1.847E-02	5.520E-03
4.500	6.274E-02	1.942E-02	5.520E-03
4.520	5.926E-02	1.928E-02	5.520E-03
4.540	6.557E-02	1.923E-02	5.520E-03
4.560	6.848E-02	1.988E-02	5.520E-03
4.580	7.026E-02	1.936E-02	5.520E-03
5.000	5.700E-02	1.918E-02	5.520E-03
5.020	5.952E-02	2.008E-02	5.520E-03
5.040	6.344E-02	2.067E-02	5.519E-03
5.060	6.556E-02	1.988E-02	5.519E-03
5.080	5.477E-02	1.465E-02	5.519E-03
5.100	5.244E-02	1.210E-02	5.519E-03
5.120	6.736E-02	1.136E-02	5.518E-03
5.140	7.359E-02	1.089E-02	5.518E-03
5.160	6.293E-02	1.018E-02	5.519E-03
5.180	4.496E-02	9.209E-03	5.519E-03
5.200	5.317E-02	7.841E-03	5.518E-03
5.220	5.404E-02	6.664E-03	5.518E-03
5.240	4.324E-02	6.245E-03	5.518E-03
5.260	3.678E-02	5.266E-03	5.518E-03
5.280	2.867E-02	4.348E-03	5.518E-03
5.300	3.390E-02	3.436E-03	5.518E-03
5.320	3.440E-02	2.294E-03	5.518E-03
5.340	3.602E-02	1.529E-03	5.518E-03
5.360	3.560E-02	1.035E-03	5.518E-03
5.380	4.171E-02	6.795E-04	5.519E-03
5.400	3.589E-02	4.038E-04	5.519E-03
5.420	1.761E-02	1.509E-04	5.519E-03
5.440	-2.679E-04	-6.027E-05	5.519E-03
5.460	4.120E-03	-2.406E-04	5.519E-03
5.480	3.733E-03	-4.102E-04	5.519E-03
5.500	5.798E-04	-5.051E-04	5.519E-03
5.520	1.435E-03	1.691E-04	5.519E-03
5.540	1.729E-03	1.861E-04	5.519E-03
5.560	1.766E-03	1.792E-04	5.518E-03
5.580	3.990E-03	1.008E-04	5.519E-03
6.000	-3.633E-03	-7.894E-05	5.518E-03
6.020	-6.042E-03	-2.992E-04	5.518E-03
6.040	-6.663E-03	-5.366E-04	5.518E-03
6.060	-1.640E-03	-5.787E-04	5.518E-03
6.080	-8.794E-03	-6.075E-04	5.518E-03
6.100	-1.289E-02	-6.278E-04	5.518E-03
6.120	-9.586E-03	-6.913E-04	5.517E-03
6.140	-4.180E-03	-7.435E-04	5.517E-03
6.160	-7.779E-03	-7.750E-04	5.517E-03
6.180	-9.787E-03	-8.022E-04	5.517E-03
6.200	-1.513E-02	-8.854E-04	5.517E-03
6.220	-1.532E-02	-1.751E-03	5.517E-03
6.240	-2.031E-02	-1.990E-03	5.517E-03
6.260	-1.967E-02	-2.220E-03	5.517E-03
6.280	-2.009E-02	-2.378E-03	5.516E-03
6.300	-2.671E-02	-2.470E-03	5.516E-03
6.320	-2.406E-02	-2.535E-03	5.516E-03
6.340	-4.022E-02	-2.587E-03	5.516E-03
6.360	-6.044E-02	-2.630E-03	5.516E-03
6.380	-5.380E-02	-2.667E-03	5.516E-03
6.400	-5.259E-02	-2.723E-03	5.516E-03
6.420	-6.423E-02	-2.735E-03	5.516E-03
6.440	-6.025E-02	-2.736E-03	5.516E-03
6.460	-6.380E-02	-2.785E-03	5.516E-03
6.480	-5.365E-02	-2.813E-03	5.516E-03
6.500	-5.217E-02	-2.831E-03	5.516E-03
6.520	-5.391E-02	-2.897E-03	5.516E-03
6.540	-4.542E-02	-2.911E-03	5.517E-03

TIME	CO	H2S	SO2
6.560	-4.915E-02	-2.540E-03	5.517E-03
6.580	-4.384E-02	-2.173E-03	5.517E-03
7.000	-4.234E-02	-1.791E-03	5.517E-03
7.020	-4.437E-02	-1.412E-03	5.518E-03
7.040	-3.082E-02	-1.036E-03	5.518E-03
7.060	-8.046E-03	-6.731E-04	5.513E-03
7.080	-9.405E-04	-2.944E-04	5.518E-03
7.100	8.634E-03	8.696E-05	5.519E-03
7.120	3.035E-02	4.657E-04	5.519E-03
7.140	4.678E-02	8.412E-04	5.519E-03
7.160	6.540E-02	1.249E-03	5.519E-03
7.180	6.600E-02	1.633E-03	5.519E-03
7.200	7.980E-02	2.007E-03	5.519E-03
7.220	8.520E-02	2.403E-03	5.520E-03
7.240	9.342E-02	2.772E-03	5.520E-03
7.260	1.079E-01	2.764E-03	5.520E-03
7.280	1.133E-01	2.760E-03	5.520E-03
7.300	1.291E-01	2.761E-03	5.521E-03
7.320	1.438E-01	2.762E-03	5.521E-03
7.340	1.428E-01	2.767E-03	5.521E-03
7.360	1.405E-01	2.790E-03	5.521E-03
7.380	1.326E-01	2.805E-03	5.521E-03
7.400	1.395E-01	2.830E-03	5.521E-03
7.420	1.704E-01	2.837E-03	5.522E-03
7.440	1.420E-01	2.854E-03	5.522E-03
7.460	1.295E-01	2.852E-03	5.522E-03
7.480	1.199E-01	2.878E-03	5.521E-03
7.500	9.919E-02	2.898E-03	5.522E-03
7.520	9.267E-02	2.913E-03	5.522E-03
7.540	7.857E-02	2.938E-03	5.522E-03
7.560	7.130E-02	2.969E-03	5.522E-03
7.580	7.036E-02	2.982E-03	5.521E-03
8.000	6.184E-02	3.001E-03	5.521E-03
8.020	5.061E-02	3.025E-03	5.522E-03
8.040	5.174E-02	3.056E-03	5.521E-03
8.060	5.045E-02	3.051E-03	5.521E-03
8.080	4.579E-02	3.065E-03	5.521E-03
8.100	4.069E-02	3.075E-03	5.520E-03
8.120	1.558E-03	3.067E-03	5.520E-03
8.140	1.820E-02	3.055E-03	5.520E-03
8.160	1.825E-02	3.062E-03	5.520E-03
8.180	2.127E-02	3.035E-03	5.520E-03
8.200	3.194E-02	2.837E-03	5.152E-03

STATISTICS

POLLUTANT	NUMBER OF READINGS	ARITHMETIC MEAN	STANDARD DEVIATION	GEOMETRIC MEAN	GEOMETRIC STANDARD DEVIATION
CO	401	4.057E-01	4.654E-01	4.574E-02	7.206E+01
H2S	401	4.655E-02	6.310E-02	6.310E-03	2.858E+01
SO2	401	6.314E-03	6.693E-03	4.366E-03	2.757E+00

SURVEY: FT FRANCES #19

DATE NOV 16 1974 SCAN TIME 30 SEC AVERAGING TIME 30 MIN

TIME	CO	H2S
10.160	3.368E+00	4.314E-02
10.165	3.356E+00	4.182E-02
10.170	3.352E+00	4.115E-02
10.175	3.349E+00	4.012E-02
10.180	3.350E+00	3.872E-02
10.185	3.343E+00	3.808E-02
10.190	3.339E+00	3.640E-02
10.195	3.335E+00	3.384E-02
10.200	3.334E+00	3.267E-02
10.205	3.324E+00	3.135E-02
10.210	3.321E+00	3.074E-02
10.215	3.312E+00	2.962E-02
10.220	3.316E+00	2.905E-02
10.225	3.342E+00	2.871E-02
10.230	3.337E+00	2.841E-02
10.235	3.337E+00	2.820E-02
10.240	3.330E+00	2.802E-02
10.245	3.307E+00	2.790E-02
10.250	3.299E+00	2.777E-02
10.255	3.287E+00	2.770E-02
10.260	3.288E+00	2.760E-02
10.265	3.278E+00	2.750E-02
10.270	3.289E+00	2.734E-02
10.275	3.297E+00	2.691E-02
10.280	3.320E+00	2.678E-02
10.285	3.330E+00	2.662E-02
10.290	3.327E+00	2.583E-02
10.295	3.334E+00	2.533E-02
10.300	3.290E+00	2.346E-02
10.305	3.287E+00	2.085E-02
10.310	3.286E+00	2.023E-02
10.315	3.292E+00	1.972E-02
10.320	3.290E+00	2.139E-02
10.325	3.252E+00	2.158E-02
10.330	3.221E+00	2.159E-02
10.335	3.216E+00	2.160E-02
10.340	3.203E+00	2.145E-02
10.345	3.205E+00	2.118E-02
10.350	3.180E+00	2.073E-02
10.355	3.218E+00	2.065E-02
10.360	3.203E+00	2.066E-02
10.365	3.196E+00	2.065E-02
10.370	3.202E+00	2.063E-02
10.375	3.207E+00	2.062E-02
10.380	3.223E+00	2.061E-02
10.385	3.237E+00	2.060E-02
10.390	3.265E+00	2.066E-02
10.395	3.288E+00	2.078E-02
10.400	3.319E+00	2.089E-02
10.405	3.429E+00	2.099E-02
10.410	3.486E+00	2.111E-02
10.415	3.521E+00	2.120E-02
10.420	3.545E+00	2.113E-02
10.425	3.554E+00	2.080E-02
10.430	3.525E+00	2.070E-02
10.435	3.563E+00	2.066E-02
10.440	3.599E+00	2.064E-02
10.445	3.641E+00	2.061E-02
10.450	3.651E+00	2.059E-02
10.455	3.665E+00	2.039E-02
10.460	3.679E+00	1.950E-02
10.465	3.690E+00	1.908E-02
10.470	3.705E+00	1.896E-02
10.475	3.718E+00	1.886E-02
10.480	3.757E+00	1.879E-02
10.485	3.783E+00	1.871E-02
10.490	3.809E+00	1.861E-02
10.495	3.819E+00	1.867E-02
10.500	3.824E+00	1.864E-02
10.505	3.839E+00	1.861E-02

TIME	CO	H2S
10.510	3.852E+00	1.859E-02
10.515	3.886E+00	1.856E-02
10.520	3.897E+00	1.852E-02
10.525	3.897E+00	1.846E-02
10.530	3.957E+00	1.842E-02
10.535	3.968E+00	1.839E-02
10.540	3.975E+00	1.834E-02
10.545	4.018E+00	1.827E-02
10.550	4.111E+00	1.823E-02
10.555	4.120E+00	1.815E-02
10.560	4.129E+00	1.811E-02
10.565	4.161E+00	1.808E-02
10.570	4.187E+00	1.806E-02
10.575	4.197E+00	1.803E-02
10.580	4.181E+00	1.800E-02
10.585	4.160E+00	1.798E-02
10.590	4.162E+00	1.795E-02
10.595	4.163E+00	1.790E-02
11.000	4.167E+00	1.766E-02
11.005	4.166E+00	1.761E-02
11.010	4.279E+00	1.757E-02
11.015	4.260E+00	1.724E-02
11.020	4.238E+00	1.519E-02
11.025	4.389E+00	1.456E-02
11.030	4.538E+00	1.424E-02
11.035	4.535E+00	1.399E-02
11.040	4.563E+00	1.376E-02
11.045	4.989E+00	1.350E-02
11.050	4.982E+00	1.287E-02
11.055	4.960E+00	1.230E-02
11.060	4.981E+00	1.200E-02
11.065	4.985E+00	1.178E-02
11.070	4.978E+00	1.159E-02
11.075	4.911E+00	1.129E-02
11.080	4.849E+00	1.101E-02
11.085	4.790E+00	1.075E-02
11.090	4.718E+00	1.043E-02
11.095	4.655E+00	1.007E-02
11.100	4.563E+00	9.716E-03
11.105	4.407E+00	9.378E-03
11.110	4.302E+00	9.046E-03

STATISTICS

POLLUTANT	NUMBER OF READINGS	ARITHMETIC MEAN	STANDARD DEVIATION	GEOMETRIC MEAN	GEOMETRIC STANDARD DEVIATION
CO	111	3.758E+00	5.424E-01	3.722E+00	1.149E+00
H2S	111	2.126E-02	7.176E-03	2.016E-02	1.395E+00

SURVEY: FT FRANCES #20

DATE NOV 16 1974 SCAN TIME 30 SEC AVERAGING TIME 30 MIN

TIME	CO	H2S
12.400	7.196E+00	1.732E-01
12.405	7.282E+00	1.711E-01
12.410	7.311E+00	1.697E-01
12.415	7.232E+00	1.664E-01
12.420	7.240E+00	1.663E-01
12.425	7.268E+00	1.628E-01
12.430	7.021E+00	1.549E-01
12.435	7.025E+00	1.478E-01
12.440	7.085E+00	1.407E-01
12.445	6.996E+00	1.379E-01
12.450	6.676E+00	1.369E-01
12.455	6.662E+00	1.371E-01
12.460	6.651E+00	1.376E-01
12.465	6.637E+00	1.414E-01
12.470	6.387E+00	1.416E-01
12.475	6.377E+00	1.400E-01
12.480	6.519E+00	1.366E-01
12.485	6.545E+00	1.340E-01
12.490	6.553E+00	1.313E-01
12.495	6.567E+00	1.295E-01
12.500	6.561E+00	1.280E-01
12.505	6.552E+00	1.270E-01
12.510	6.622E+00	1.254E-01
12.515	6.602E+00	1.225E-01
12.520	6.563E+00	1.190E-01
12.525	6.509E+00	1.162E-01
12.530	6.487E+00	1.142E-01
12.535	6.447E+00	1.125E-01
12.540	5.859E+00	1.114E-01
12.545	5.226E+00	1.105E-01
12.550	5.068E+00	1.088E-01
12.555	5.018E+00	1.078E-01
12.560	5.001E+00	1.072E-01
12.565	4.842E+00	1.046E-01
12.570	4.683E+00	1.006E-01
12.575	4.711E+00	9.471E-02
12.580	4.661E+00	9.313E-02
12.585	4.642E+00	9.081E-02
12.590	4.254E+00	8.771E-02
12.595	4.216E+00	8.469E-02
13.000	4.211E+00	8.331E-02
13.005	4.162E+00	8.261E-02
13.010	4.168E+00	8.566E-02
13.015	4.154E+00	8.617E-02
13.020	4.145E+00	9.108E-02
13.025	4.087E+00	9.241E-02
13.030	3.951E+00	9.295E-02
13.035	3.838E+00	9.434E-02
13.040	3.483E+00	9.468E-02
13.045	3.195E+00	9.448E-02
13.050	3.193E+00	9.426E-02
13.055	3.207E+00	9.146E-02
13.060	3.212E+00	8.958E-02
13.065	3.219E+00	8.898E-02
13.070	3.221E+00	8.797E-02
13.075	3.151E+00	8.723E-02
13.080	3.088E+00	8.674E-02
13.085	2.933E+00	8.574E-02
13.090	2.682E+00	8.372E-02
13.095	2.674E+00	8.236E-02
13.100	2.675E+00	8.114E-02
13.105	2.594E+00	8.127E-02
13.110	2.577E+00	8.534E-02
13.115	2.735E+00	8.376E-02
13.120	2.727E+00	8.673E-02
13.125	2.710E+00	8.807E-02
13.130	2.742E+00	8.893E-02
13.135	2.890E+00	8.943E-02
13.140	2.905E+00	8.982E-02
13.145	2.917E+00	8.996E-02

TIME	CO	H2S
13.150	2.940E+00	8.972E-02
13.155	3.042E+00	8.976E-02
13.160	3.130E+00	9.043E-02
13.165	3.149E+00	9.181E-02
13.170	3.116E+00	9.622E-02
13.175	3.162E+00	1.009E-01
13.180	3.164E+00	1.048E-01
13.185	3.151E+00	1.099E-01
13.190	3.069E+00	1.159E-01
13.195	3.050E+00	1.170E-01
13.200	3.065E+00	1.186E-01
13.205	3.197E+00	1.210E-01
13.210	3.130E+00	1.230E-01
13.215	3.162E+00	1.274E-01
13.220	3.189E+00	1.294E-01
13.225	3.202E+00	1.336E-01
13.230	3.212E+00	1.373E-01
13.235	3.227E+00	1.403E-01
13.240	3.238E+00	1.417E-01
13.245	3.250E+00	1.447E-01
13.250	3.262E+00	1.455E-01
13.255	3.270E+00	1.487E-01
13.260	3.278E+00	1.509E-01
13.265	3.276E+00	1.575E-01
13.270	3.278E+00	1.615E-01
13.275	3.243E+00	1.626E-01
13.280	3.260E+00	1.688E-01
13.285	3.268E+00	1.777E-01
13.290	3.263E+00	1.869E-01
13.295	3.278E+00	1.903E-01
13.300	3.308E+00	1.920E-01
13.305	3.332E+00	1.931E-01
13.310	3.341E+00	1.905E-01
13.315	3.379E+00	1.906E-01
13.320	3.389E+00	1.899E-01
13.325	3.568E+00	1.904E-01
13.330	3.556E+00	1.912E-01
13.335	3.548E+00	1.956E-01
13.340	3.527E+00	1.972E-01
13.345	3.508E+00	1.978E-01
13.350	3.499E+00	2.004E-01
13.355	3.720E+00	2.024E-01
13.360	3.798E+00	2.033E-01
13.365	3.796E+00	2.044E-01
13.370	3.785E+00	2.051E-01
13.375	3.780E+00	2.075E-01
13.380	3.794E+00	2.095E-01
13.385	3.825E+00	2.133E-01
13.390	3.829E+00	2.225E-01
13.395	3.826E+00	2.322E-01
13.400	3.839E+00	2.369E-01
13.405	3.824E+00	2.392E-01
13.410	3.806E+00	2.395E-01
13.415	3.702E+00	2.481E-01
13.420	3.689E+00	2.489E-01
13.425	3.681E+00	2.532E-01
13.430	3.651E+00	2.606E-01
13.435	3.504E+00	2.689E-01
13.440	3.510E+00	2.786E-01
13.445	3.513E+00	2.809E-01
13.450	3.515E+00	2.847E-01
13.455	3.432E+00	2.864E-01
13.460	3.367E+00	2.920E-01
13.465	3.398E+00	2.962E-01
13.470	3.390E+00	2.939E-01
13.475	3.352E+00	2.920E-01
13.480	3.206E+00	2.915E-01
13.485	3.195E+00	2.896E-01
13.490	3.200E+00	2.874E-01
13.495	3.195E+00	2.886E-01
13.500	3.179E+00	2.904E-01
13.505	3.051E+00	2.939E-01

TIME	CO	H2S
13.510	3.067E+00	2.949E-01
13.515	3.054E+00	2.956E-01
13.520	3.043E+00	3.060E-01
13.525	3.035E+00	3.113E-01
13.530	3.036E+00	3.192E-01
13.535	3.033E+00	3.190E-01
13.540	3.027E+00	3.194E-01
13.545	3.024E+00	3.185E-01
13.550	3.024E+00	3.193E-01
13.555	3.023E+00	3.190E-01
13.560	3.027E+00	3.264E-01
13.565	3.024E+00	3.237E-01
13.570	3.025E+00	3.259E-01
13.575	3.019E+00	3.332E-01
13.580	3.011E+00	3.324E-01
13.585	3.006E+00	3.253E-01
13.590	3.032E+00	3.184E-01
13.595	3.046E+00	3.165E-01
14.000	3.029E+00	3.162E-01
14.005	3.038E+00	3.176E-01
14.010	3.032E+00	3.181E-01
14.015	2.992E+00	3.190E-01
14.020	2.985E+00	3.242E-01
14.025	2.793E+00	3.261E-01
14.030	2.783E+00	3.259E-01
14.035	2.776E+00	3.209E-01
14.040	2.772E+00	3.197E-01
14.045	2.765E+00	3.195E-01
14.050	2.750E+00	3.174E-01
14.055	2.506E+00	3.159E-01
14.060	2.408E+00	3.165E-01
14.065	2.387E+00	3.164E-01
14.070	2.362E+00	3.170E-01
14.075	2.353E+00	3.157E-01
14.080	2.321E+00	3.150E-01
14.085	2.268E+00	3.122E-01
14.090	2.257E+00	3.038E-01
14.095	2.368E+00	2.947E-01
14.100	2.342E+00	2.901E-01
14.105	2.356E+00	2.868E-01
14.110	2.358E+00	2.850E-01
14.115	2.294E+00	2.799E-01
14.120	2.273E+00	2.790E-01
14.125	2.271E+00	2.808E-01
14.130	2.258E+00	2.785E-01
14.135	2.245E+00	2.771E-01
14.140	2.231E+00	2.767E-01
14.145	2.263E+00	2.800E-01
14.150	2.238E+00	2.828E-01
14.155	2.225E+00	2.911E-01
14.160	2.202E+00	2.923E-01
14.165	2.158E+00	2.892E-01
14.170	2.142E+00	2.890E-01
14.175	2.139E+00	2.891E-01
14.180	2.121E+00	2.918E-01
14.185	2.102E+00	2.901E-01
14.190	2.090E+00	2.873E-01
14.195	2.101E+00	2.873E-01
14.200	2.131E+00	2.858E-01
14.205	2.134E+00	2.817E-01
14.210	2.113E+00	2.798E-01
14.215	2.409E+00	2.771E-01
14.220	2.414E+00	2.689E-01
14.225	2.408E+00	2.637E-01
14.230	2.402E+00	2.570E-01
14.235	2.396E+00	2.558E-01
14.240	2.950E+00	2.551E-01
14.245	2.945E+00	2.537E-01
14.250	2.940E+00	2.527E-01
14.255	2.980E+00	2.497E-01
14.260	2.982E+00	2.420E-01
14.265	2.978E+00	2.386E-01

TIME	CO	H2S
14.270	3.004E+00	2.327E-01
14.275	3.005E+00	2.244E-01
14.280	2.996E+00	2.200E-01
14.285	3.066E+00	2.220E-01
14.290	3.026E+00	2.229E-01
14.295	3.010E+00	2.224E-01
14.300	3.005E+00	2.223E-01
14.305	2.994E+00	2.205E-01
14.310	2.992E+00	2.184E-01
14.315	2.989E+00	2.168E-01
14.320	2.988E+00	2.072E-01
14.325	2.986E+00	2.035E-01
14.330	3.143E+00	2.023E-01
14.335	3.224E+00	2.023E-01
14.340	3.245E+00	2.036E-01
14.345	3.260E+00	2.059E-01
14.350	3.324E+00	2.084E-01
14.355	4.242E+00	2.093E-01
14.360	4.288E+00	2.086E-01
14.365	4.291E+00	2.082E-01
14.370	4.299E+00	2.072E-01
14.375	4.301E+00	2.067E-01
14.380	4.295E+00	2.058E-01
14.385	4.421E+00	2.052E-01
14.390	4.605E+00	2.064E-01
14.395	4.891E+00	2.141E-01
14.400	4.879E+00	2.209E-01
14.405	4.849E+00	2.281E-01
14.410	4.850E+00	2.322E-01
14.415	4.860E+00	2.359E-01
14.420	4.867E+00	2.331E-01
14.425	4.858E+00	2.262E-01
14.430	4.863E+00	2.206E-01
14.435	5.040E+00	2.135E-01
14.440	5.178E+00	2.042E-01
14.445	5.145E+00	1.983E-01
14.450	6.001E+00	1.920E-01
14.455	6.003E+00	1.812E-01
14.460	6.010E+00	1.729E-01
14.465	6.024E+00	1.666E-01
14.470	6.533E+00	1.644E-01
14.475	6.550E+00	1.612E-01
14.480	6.558E+00	1.552E-01
14.485	6.544E+00	1.537E-01
14.490	6.537E+00	1.527E-01
14.495	6.513E+00	1.506E-01
14.500	6.474E+00	1.500E-01
14.505	6.471E+00	1.532E-01
14.510	6.461E+00	1.541E-01
14.515	6.171E+00	1.525E-01
14.520	6.225E+00	1.490E-01
14.525	6.222E+00	1.458E-01
14.530	6.223E+00	1.419E-01
14.535	6.254E+00	1.412E-01
14.540	5.712E+00	1.414E-01
14.545	5.706E+00	1.412E-01
14.550	5.705E+00	1.506E-01
14.555	5.663E+00	1.558E-01
14.560	5.667E+00	1.563E-01
14.565	5.676E+00	1.584E-01
14.570	5.788E+00	1.588E-01
14.575	5.827E+00	1.591E-01
14.580	5.870E+00	1.586E-01
14.585	5.926E+00	1.562E-01
14.590	5.953E+00	1.538E-01
14.595	5.960E+00	1.540E-01
15.000	5.984E+00	1.567E-01
15.005	5.994E+00	1.577E-01
15.010	5.990E+00	1.587E-01
15.015	6.000E+00	1.592E-01
15.020	6.034E+00	1.598E-01
15.025	6.050E+00	1.624E-01

TIME	CO	H2S
15.030	5.912E+00	1.628E-01
15.035	5.853E+00	1.636E-01
15.040	5.838E+00	1.636E-01
15.045	5.839E+00	1.669E-01
15.050	5.812E+00	1.756E-01
15.055	4.900E+00	1.789E-01
15.060	4.870E+00	1.817E-01
15.065	4.841E+00	1.822E-01
15.070	4.826E+00	1.831E-01
15.075	4.880E+00	1.839E-01
15.080	4.936E+00	1.915E-01
15.085	4.822E+00	1.960E-01
15.090	4.649E+00	1.957E-01
15.095	4.249E+00	1.886E-01
15.100	4.438E+00	1.813E-01
15.105	4.470E+00	1.741E-01
15.110	4.481E+00	1.669E-01
15.115	4.478E+00	1.594E-01
15.120	4.491E+00	1.580E-01
15.125	4.497E+00	1.572E-01
15.130	4.512E+00	1.567E-01
15.135	4.363E+00	1.563E-01
15.140	4.235E+00	1.557E-01
15.145	4.234E+00	1.552E-01
15.150	3.344E+00	1.548E-01
15.155	3.362E+00	1.545E-01
15.160	3.320E+00	1.544E-01
15.165	3.256E+00	1.540E-01
15.170	2.702E+00	1.536E-01
15.175	2.630E+00	1.534E-01
15.180	2.627E+00	1.533E-01
15.185	2.652E+00	1.532E-01
15.190	2.661E+00	1.532E-01
15.195	2.682E+00	1.529E-01
15.200	2.695E+00	1.517E-01
15.205	2.704E+00	1.469E-01
15.210	2.726E+00	1.449E-01
15.215	2.695E+00	1.441E-01
15.220	2.639E+00	1.446E-01
15.225	2.650E+00	1.436E-01
15.230	2.648E+00	1.439E-01
15.235	2.626E+00	1.420E-01
15.240	2.616E+00	1.407E-01
15.245	2.709E+00	1.400E-01
15.250	2.717E+00	1.299E-01
15.255	2.699E+00	1.239E-01
15.260	2.681E+00	1.221E-01
15.265	2.659E+00	1.185E-01
15.270	2.515E+00	1.173E-01
15.275	2.461E+00	1.161E-01
15.280	2.402E+00	1.146E-01
15.285	2.259E+00	1.130E-01
15.290	2.649E+00	1.121E-01
15.295	2.613E+00	1.104E-01
15.300	2.555E+00	1.059E-01

STATISTICS

POLLUTANT	NUMBER OF READINGS	ARITHMETIC MEAN	STANDARD DEVIATION	GEOMETRIC MEAN	GEOMETRIC STANDARD DEVIATION
CO	341	3.923E+00	1.433E+00	3.690E+00	1.412E+00
H2S	341	1.906E-01	7.343E-02	1.765E-01	1.494E+00

SURVEY: FT FRANCES #21

DATE NOV 17 1974 SCAN TIME 30 SEC AVERAGING TIME 30 MIN

TIME	CO	H2S
12.000	1.988E+00	3.107E-01
12.005	1.972E+00	3.094E-01
12.010	1.951E+00	3.064E-01
12.015	1.931E+00	3.093E-01
12.020	1.920E+00	3.133E-01
12.025	1.923E+00	3.170E-01
12.030	1.887E+00	3.200E-01
12.035	1.868E+00	3.177E-01
12.040	1.859E+00	3.162E-01
12.045	1.847E+00	3.124E-01
12.050	1.898E+00	3.116E-01
12.055	1.910E+00	3.125E-01
12.060	1.889E+00	3.149E-01
12.065	1.869E+00	3.156E-01
12.070	1.857E+00	3.173E-01
12.075	1.839E+00	3.183E-01
12.080	1.823E+00	3.184E-01
12.085	1.829E+00	3.174E-01
12.090	1.825E+00	3.164E-01
12.095	1.814E+00	3.142E-01
12.100	1.814E+00	3.226E-01
12.105	1.822E+00	3.266E-01
12.110	1.830E+00	3.307E-01
12.115	1.821E+00	3.331E-01
12.120	1.816E+00	3.390E-01
12.125	1.806E+00	3.387E-01
12.130	1.803E+00	3.426E-01
12.135	1.830E+00	3.447E-01
12.140	1.829E+00	3.455E-01
12.145	1.831E+00	3.436E-01
12.150	1.832E+00	3.493E-01
12.155	1.848E+00	3.505E-01
12.160	1.856E+00	3.495E-01
12.165	1.856E+00	3.437E-01
12.170	1.864E+00	3.373E-01
12.175	1.869E+00	3.336E-01
12.180	1.803E+00	3.278E-01
12.185	1.810E+00	3.254E-01
12.190	1.833E+00	3.248E-01
12.195	1.833E+00	3.225E-01
12.200	1.833E+00	3.190E-01
12.205	1.800E+00	3.123E-01
12.210	1.675E+00	3.100E-01
12.215	1.679E+00	3.145E-01
12.220	1.661E+00	3.100E-01
12.225	1.665E+00	3.056E-01
12.230	1.682E+00	2.948E-01
12.235	1.686E+00	2.932E-01
12.240	1.679E+00	2.924E-01
12.245	1.683E+00	2.878E-01
12.250	1.685E+00	2.838E-01
12.255	1.690E+00	2.770E-01
12.260	1.688E+00	2.776E-01
12.265	1.690E+00	2.719E-01
12.270	1.704E+00	2.718E-01
12.275	1.695E+00	2.701E-01
12.280	1.720E+00	2.686E-01
12.285	1.715E+00	2.643E-01
12.290	1.703E+00	2.606E-01
12.295	1.718E+00	2.537E-01
12.300	1.730E+00	2.509E-01
12.305	1.739E+00	2.494E-01
12.310	1.751E+00	2.484E-01
12.315	1.746E+00	2.431E-01
12.320	1.745E+00	2.351E-01
12.325	1.732E+00	2.277E-01
12.330	1.735E+00	2.196E-01
12.335	1.728E+00	2.176E-01
12.340	1.721E+00	2.199E-01
12.345	1.718E+00	2.202E-01

TIME	CO	H2S
12.350	1.628E+00	2.207E-01
12.355	1.600E+00	2.180E-01
12.360	1.599E+00	2.148E-01
12.365	1.599E+00	2.156E-01
12.370	1.587E+00	2.145E-01
12.375	1.584E+00	2.140E-01
12.380	1.619E+00	2.127E-01
12.385	1.585E+00	2.104E-01
12.390	1.573E+00	2.095E-01
12.395	1.561E+00	2.080E-01
12.400	1.549E+00	1.968E-01
12.405	1.521E+00	1.896E-01
12.410	1.491E+00	1.814E-01
12.415	1.470E+00	1.745E-01
12.420	1.458E+00	1.657E-01
12.425	1.445E+00	1.631E-01
12.430	1.434E+00	1.558E-01
12.435	1.405E+00	1.514E-01
12.440	1.390E+00	1.483E-01
12.445	1.374E+00	1.454E-01
12.450	1.353E+00	1.375E-01
12.455	1.330E+00	1.341E-01
12.460	1.344E+00	1.392E-01
12.465	1.331E+00	1.414E-01
12.470	1.317E+00	1.423E-01
12.475	1.304E+00	1.422E-01
12.480	1.290E+00	1.417E-01
12.485	1.296E+00	1.409E-01
12.490	1.268E+00	1.398E-01
12.495	1.250E+00	1.390E-01
12.500	1.243E+00	1.383E-01
12.505	1.234E+00	1.373E-01
12.510	1.216E+00	1.367E-01
12.515	1.198E+00	1.307E-01
12.520	1.194E+00	1.292E-01
12.525	1.181E+00	1.282E-01
12.530	1.176E+00	1.292E-01
12.535	1.174E+00	1.294E-01
12.540	1.177E+00	1.298E-01
12.545	1.173E+00	1.302E-01
12.550	1.167E+00	1.300E-01
12.555	1.159E+00	1.303E-01
12.560	1.165E+00	1.274E-01
12.565	1.260E+00	1.279E-01
12.570	1.250E+00	1.266E-01
12.575	1.252E+00	1.267E-01
12.580	1.229E+00	1.264E-01
12.585	1.239E+00	1.274E-01
12.590	1.253E+00	1.273E-01
12.595	1.235E+00	1.266E-01
13.000	1 224E+00	1.265E-01
13.005	1.200E+00	1.276E-01
13.010	1.175E+00	1.278E-01
13.015	1.162E+00	1.277E-01
13.020	1.142E+00	1.282E-01
13.025	1.116E+00	1.271E-01
13.030	1.094E+00	1.249E-01
13.035	1.082E+00	1.236E-01
13.040	1.065E+00	1.189E-01
13.045	1.052E+00	1.158E-01
13.050	1.043E+00	1.110E-01

STATISTICS

POLLUTANT	NUMBER OF READINGS	ARITHMETIC MEAN	STANDARD DEVIATION	GEOMETRIC MEAN	GEOMETRIC STANDARD DEVIATION
CO	131	1.571E+00	2.754E-01	1.545E+00	1.203E+00
H2S	131	2.309E-01	8.322E-02	2.150E-01	1.479E+00

SURVEY: FT FRANCES #22

DATE NOV 17 1974 SCAN TIME 30 SEC AVERAGING TIME 30 MIN

TIME	CO	H2S
15.120	1.785E+00	2.725E-01
15.125	1.788E+00	2.744E-01
15.130	1.732E+00	3.761E-01
15.135	1.708E+00	2.776E-01
15.140	1.697E+00	2.767E-01
15.145	1.690E+00	2.769E-01
15.150	1.673E+00	2.761E-01
15.155	1.674E+00	2.758E-01
15.160	1.672E+00	2.767E-01
15.165	1.663E+00	2.766E-01
15.170	1.654E+00	2.784E-01
15.175	1.642E+00	2.790E-01
15.180	1.634E+00	2.791E-01
15.185	1.618E+00	2.788E-01
15.190	1.604E+00	2.796E-01
15.195	1.603E+00	2.782E-01
15.200	1.593E+00	2.779E-01
15.205	1.591E+00	2.775E-01
15.210	1.575E+00	2.746E-01
15.215	1.577E+00	2.729E-01
15.220	1.572E+00	2.735E-01
15.225	1.551E+00	2.743E-01
15.230	1.556E+00	2.743E-01
15.235	1.558E+00	2.737E-01
15.240	1.561E+00	2.729E-01
15.245	1.556E+00	2.712E-01
15.250	1.499E+00	2.696E-01
15.255	1.507E+00	2.692E-01
15.260	1.490E+00	2.687E-01
15.265	1.480E+00	2.684E-01
15.270	1.477E+00	2.687E-01
15.275	1.462E+00	2.668E-01
15.280	1.448E+00	2.652E-01
15.285	1.447E+00	2.642E-01
15.290	1.436E+00	2.638E-01
15.295	1.430E+00	2.643E-01
15.300	1.415E+00	2.618E-01
15.305	1.383E+00	2.595E-01
15.310	1.378E+00	2.572E-01
15.315	1.378E+00	2.553E-01
15.320	1.375E+00	2.534E-01
15.325	1.381E+00	2.537E-01
15.330	1.368E+00	2.537E-01
15.335	1.358E+00	2.541E-01
15.340	1.355E+00	2.533E-01
15.345	1.369E+00	2.543E-01
15.350	1.387E+00	2.547E-01
15.355	1.407E+00	2.542E-01
15.360	1.395E+00	2.530E-01
15.365	1.386E+00	2.512E-01
15.370	1.366E+00	2.489E-01
15.375	1.362E+00	2.469E-01
15.380	1.358E+00	2.461E-01
15.385	1.351E+00	2.450E-01
15.390	1.349E+00	2.461E-01
15.395	1.349E+00	2.452E-01
15.400	1.694E+00	2.442E-01
15.405	1.705E+00	2.454E-01
15.410	1.699E+00	2.466E-01
15.415	1.694E+00	2.486E-01
15.420	1.710E+00	2.493E-01
15.425	1.703E+00	2.511E-01
15.430	1.700E+00	2.536E-01
15.435	1.695E+00	2.549E-01
15.440	1.688E+00	2.569E-01
15.445	1.677E+00	2.581E-01
15.450	1.672E+00	2.614E-01
15.455	1.672E+00	2.646E-01
15.460	1.672E+00	2.652E-01
15.465	1.683E+00	2.673E-01

TIME	CO	H2S
15.470	1.681E+00	2.674E-01
15.475	1.677E+00	2.677E-01
15.480	1.666E+00	2.688E-01
15.485	1.649E+00	2.698E-01
15.490	1.655E+00	2.734E-01
15.495	1.658E+00	2.769E-01
15.500	1.601E+00	2.779E-01
15.505	1.599E+00	2.788E-01
15.510	1.573E+00	2.815E-01
15.515	1.532E+00	2.807E-01
15.520	1.508E+00	2.789E-01
15.525	1.480E+00	2.774E-01
15.530	1.463E+00	2.775E-01
15.535	1.428E+00	2.787E-01
15.540	1.415E+00	2.773E-01
15.545	1.399E+00	2.777E-01
15.550	1.377E+00	2.782E-01
15.555	1.345E+00	2.777E-01
15.560	1.344E+00	2.780E-01
15.565	1.337E+00	2.779E-01
15.570	1.331E+00	2.774E-01
15.575	1.326E+00	2.777E-01
15.580	1.307E+00	2.766E-01
15.585	1.283E+00	2.767E-01
15.590	1.279E+00	2.761E-01
15.595	1.273E+00	2.750E-01
16.000	1.273E+00	2.747E-01
16.005	1.273E+00	2.749E-01
16.010	1.261E+00	2.742E-01
16.015	1.252E+00	2.733E-01
16.020	1.241E+00	2.742E-01
16.025	1.223E+00	2.719E-01
16.030	1.211E+00	2.696E-01
16.035	1.211E+00	2.673E-01
16.040	1.182E+00	2.644E-01
16.045	1.166E+00	2.621E-01
16.050	1.170E+00	2.599E-01
16.055	1.163E+00	2.578E-01
16.060	1.188E+00	2.577E-01
16.065	1.198E+00	2.579E-01
16.070	1.208E+00	2.562E-01
16.075	1.211E+00	2.542E-01
16.080	1.205E+00	2.514E-01
16.085	1.205E+00	2.490E-01
16.090	1.210E+00	2.454E-01
16.095	1.207E+00	2.432E-01
16.100	8.635E-01	2.418E-01
16.105	8.471E-01	2.387E-01
16.110	8.469E-01	2.364E-01
16.115	8.357E-01	2.323E-01
16.120	8.078E-01	2.277E-01
16.125	7.956E-01	2.237E-01
16.130	7.799E-01	2.183E-01
16.135	7.677E-01	2.127E-01
16.140	7.611E-01	2.089E-01
16.145	7.582E-01	2.052E-01
16.150	7.975E-01	2.014E-01
16.155	7.827E-01	1.965E-01
16.160	7.723E-01	1.936E-01
16.165	7.528E-01	1.901E-01
16.170	7.489E-01	1.864E-01
16.175	7.481E-01	1.825E-01
16.180	7.542E-01	1.784E-01
16.185	7.559E-01	1.742E-01
16.190	7.529E-01	1.669E-01
16.195	7.248E-01	1.616E-01
16.200	7.495E-01	1.572E-01
16.205	7.231E-01	1.529E-01
16.210	7.240E-01	1.481E-01
16.215	7.307E-01	1.460E-01
16.220	7.244E-01	1.438E-01
16.225	7.216E-01	1.413E-01

TIME	CO	H2S
16.230	7.006E-01	1.376E-01
16.235	7.009E-01	1.331E-01
16.240	6.672E-01	1.305E-01
16.245	6.625E-01	1.270E-01
16.250	6.472E-01	1.220E-01
16.255	6.379E-01	1.171E-01
16.260	6.078E-01	1.120E-01
16.265	5.900E-01	1.076E-01
16.270	5.722E-01	1.036E-01

STATISTICS

POLLUTANT	NUMBER OF READINGS	ARITHMETIC MEAN	STANDARD DEVIATION	GEOMETRIC MEAN	GEOMETRIC STANDARD DEVIATION
CO	151	1.302E+00	3.496E-01	1.246E+00	1.369E+00
H2S	151	2.446E-01	4.545E-02	2.391E-01	1.262E+00

SURVEY: FT FRANCES #23

DATE NOV 17 1974 SCAN TIME 30 SEC AVERAGING TIME 10 MIN

TIME	CO	H2S
17.270	1.65[illegible]E+00	7.697E-02
17.275	1.63[illegible]E+00	8.[illegible]3E-02
17.280	1.62[illegible]E+00	8.[illegible]4E-02
17.285	1.676E+00	8.730E-02
17.290	1.659E+00	9.029E-02
17.295	1.562E+00	9.339E-02
17.300	1.489E+00	9.628E-02
17.305	1.402E+00	9.938E-02
17.310	1.310E+00	1.026E-01
17.315	1.202E+00	1.062E-01
17.320	1.151E+00	1.097E-01
17.325	1.056E+00	1.137E-01
17.330	1.015E+00	1.179E-01
17.335	9.205E-01	1.226E-01
17.340	8.719E-01	1.277E-01
17.345	8.655E-01	1.320E-01
17.350	1.023E+00	1.360E-01
17.355	1.011E+00	1.392E-01
17.360	9.202E-01	1.435E-01
17.365	8.738E-01	1.493E-01
17.370	8.231E-01	1.524E-01

STATISTICS

POLLUTANT	NUMBER OF READINGS	ARITHMETIC MEAN	STANDARD DEVIATION	GEOMETRIC MEAN	GEOMETRIC STANDARD DEVIATION
CO	21	1.231E+00	3.243E-01	1.191E+00	1.301E+[illegible]
H2S	21	1.126E-01	2.317E-02	1.103E-01	1.2[illegible]E+[illegible]

SURVEY: FT FRANCES #23A

DATE NOV 17 1974 SCAN TIME 30 SEC AVERAGING TIME 30 MIN

TIME	CO	H2S
18.100	5.676E-01	1.907E-01
18.105	5.661E-01	1.894E-01
18.110	5.694E-01	1.882E-01
18.115	5.605E-01	1.870E-01
18.120	5.528E-01	1.853E-01
18.125	5.442E-01	1.839E-01
18.130	5.493E-01	1.825E-01
18.135	5.486E-01	1.813E-01
18.140	5.551E-01	1.804E-01
18.145	5.495E-01	1.796E-01
18.150	5.469E-01	1.786E-01
18.155	5.490E-01	1.777E-01
18.160	5.520E-01	1.771E-01
18.165	5.779E-01	1.764E-01
18.170	5.727E-01	1.758E-01
18.175	5.260E-01	1.749E-01
18.180	5.262E-01	1.739E-01
18.185	5.317E-01	1.731E-01
18.190	5.454E-01	1.718E-01
18.195	5.623E-01	1.705E-01
18.200	5.842E-01	1.691E-01
18.205	5.779E-01	1.674E-01
18.210	5.672E-01	1.654E-01
18.215	5.570E-01	1.640E-01
18.220	5.541E-01	1.628E-01
18.225	5.627E-01	1.618E-01
18.230	5.442E-01	1.610E-01
18.235	5.501E-01	1.597E-01
18.240	5.357E-01	1.591E-01
18.245	5.383E-01	1.588E-01
18.250	5.331E-01	1.582E-01
18.255	5.328E-01	1.570E-01
18.260	5.287E-01	1.558E-01
18.265	5.076E-01	1.546E-01
18.270	5.028E-01	1.536E-01
18.275	5.127E-01	1.528E-01
18.280	5.197E-01	1.523E-01
18.285	5.187E-01	1.520E-01
18.290	5.254E-01	1.518E-01
18.295	5.184E-01	1.488E-01
18.300	5.113E-01	1.457E-01

STATISTICS

POLLUTANT	NUMBER OF READINGS	ARITHMETIC MEAN	STANDARD DEVIATION	GEOMETRIC MEAN	GEOMETRIC STANDARD DEVIATION
CO	41	5.447E-01	2.111E-02	5.444E-01	1.039E+00
H2S	41	1.685E-01	1.274E-02	1.681E-01	1.079E+00

SURVEY: FT FRANCES #24

DATE NOV 17 1974 SCAN TIME 120 SEC AVERAGING TIME 30 MIN

TIME	CO	H2S
19.530	1.685E+00	3.306E-02
19.550	1.714E+00	3.390E-02
19.570	1.741E+00	3.451E-02
19.590	1.748E+00	3.504E-02
20.000	1.743E+00	3.509E-02
20.020	1.709E+00	3.091E-02
20.040	1.664E+00	2.549E-02
20.060	1.674E+00	2.026E-02
20.080	1.669E+00	1.748E-02
20.100	1.693E+00	1.792E-02
20.120	1.697E+00	1.827E-02
20.140	1.682E+00	1.852E-02
20.160	1.655E+00	1.842E-02
20.180	1.640E+00	1.799E-02
20.200	1.627E+00	1.744E-02
20.220	1.592E+00	1.689E-02
20.240	1.582E+00	1.616E-02
20.260	1.551E+00	1.545E-02
20.280	1.547E+00	1.484E-02
20.300	1.539E+00	1.439E-02
20.320	1.528E+00	1.421E-02
20.340	1.526E+00	1.407E-02
20.360	1.459E+00	1.391E-02
20.380	1.450E+00	1.327E-02
20.400	1.387E+00	1.007E-02
20.420	1.356E+00	7.346E-03
20.440	1.337E+00	4.891E-03
20.460	1.330E+00	3.422E-03
20.480	1.333E+00	2.790E-03
20.500	1.350E+00	2.394E-03
20.520	1.360E+00	2.429E-03
20.540	1.375E+00	4.876E-03
20.560	1.383E+00	8.783E-03
20.580	1.380E+00	1.288E-02
21.000	1.429E+00	2.198E-02
21.020	1.495E+00	3.016E-02
21.040	1.563E+00	4.188E-02
21.060	1.663E+00	5.752E-02
21.080	1.772E+00	7.487E-02
21.100	1.858E+00	9.114E-02
21.120	1.951E+00	1.066E-01
21.140	2.065E+00	1.239E-01
21.160	2.185E+00	1.393E-01
21.180	2.250E+00	1.538E-01
21.200	2.290E+00	1.681E-01
21.220	2.365E+00	1.857E-01
21.240	2.408E+00	1.959E-01
21.260	2.393E+00	1.999E-01
21.280	2.411E+00	2.047E-01
21.300	2.397E+00	2.044E-01
21.320	2.325E+00	2.030E-01
21.340	2.239E+00	1.970E-01
21.360	2.132E+00	1.873E-01
21.380	2.001E+00	1.800E-01
21.400	1.875E+00	1.723E-01
21.420	1.763E+00	1.625E-01
21.440	1.620E+00	1.501E-01
21.460	1.482E+00	1.392E-01
21.480	1.396E+00	1.291E-01
21.500	1.308E+00	1.200E-01
21.520	1.202E+00	1.101E-01
21.540	1.109E+00	1.049E-01
21.560	1.076E+00	1.021E-01
21.580	1.030E+00	1.017E-01
22.000	9.704E-01	1.017E-01
22.020	9.454E-01	1.047E-01
22.040	9.284E-01	1.061E-01
22.060	9.266E-01	1.054E-01
22.080	9.085E-01	9.870E-02
22.100	9.158E-01	9.332E-02

TIME	CO	H2S
22.120	9.099E-01	9.090E-02
22.140	9.113E-01	9.022E-02
22.160	9.113E-01	8.895E-02
22.180	9.091E-01	8.850E-02
22.200	9.157E-01	8.621E-02
22.220	9.299E-01	8.169E-02
22.240	9.758E-01	7.945E-02
22.260	1.023E+00	8.128E-02
22.280	1.082E+00	8.054E-02
22.300	1.118E+00	7.918E-02
22.320	1.146E+00	7.640E-02
22.340	1.196E+00	7.731E-02
22.360	1.240E+00	8.255E-02
22.380	1.249E+00	8.471E-02
22.400	1.257E+00	8.531E-02
22.420	1.252E+00	8.497E-02
22.440	1.254E+00	8.411E-02
22.460	1.241E+00	8.325E-02
22.480	1.227E+00	8.165E-02
22.500	1.209E+00	8.073E-02
22.520	1.206E+00	8.057E-02
22.540	1.195E+00	8.153E-02
22.560	1.184E+00	8.382E-02
22.580	1.202E+00	9.282E-02
23.000	1.192E+00	9.649E-02
23.020	1.216E+00	9.860E-02
23.040	1.189E+00	1.001E-01
23.060	1.195E+00	1.082E-01
23.080	1.266E+00	1.230E-01
23.100	1.324E+00	1.382E-01
23.120	1.415E+00	1.571E-01
23.140	1.478E+00	1.732E-01
23.160	1.552E+00	1.904E-01
23.180	1.570E+00	1.993E-01
23.200	1.582E+00	2.044E-01
23.220	1.549E+00	2.064E-01
23.240	1.508E+00	2.053E-01
23.260	1.451E+00	2.006E-01
23.280	1.366E+00	1.882E-01
23.300	1.350E+00	1.833E-01
23.320	1.346E+00	1.830E-01
23.340	1.378E+00	1.863E-01
23.360	1.312E+00	1.752E-01
23.380	1.238E+00	1.617E-01
23.400	1.163E+00	1.488E-01
23.420	1.064E+00	1.310E-01
23.440	9.845E-01	1.146E-01
23.460	8.928E-01	9.747E-02
23.480	8.631E-01	8.848E-02
23.500	8.504E-01	8.350E-02
23.520	8.478E-01	8.017E-02
23.540	8.382E-01	7.684E-02
23.560	8.401E-01	7.423E-02
23.580	8.372E-01	7.217E-02
24.000	8.046E-01	6.824E-02
24.020	7.421E-01	6.179E-02
24.040	7.065E-01	5.468E-02
24.060	7.251E-01	5.212E-02
24.080	7.182E-01	4.950E-02
24.100	7.530E-01	4.761E-02
24.120	7.788E-01	5.030E-02
24.140	8.080E-01	5.251E-02
24.160	8.271E-01	5.535E-02
24.180	8.408E-01	5.668E-02
24.200	8.438E-01	5.894E-02
24.220	8.533E-01	6.024E-02
24.240	8.803E-01	6.164E-02
24.260	8.845E-01	6.425E-02
24.280	8.800E-01	6.699E-02
24.300	8.861E-01	7.021E-02
24.320	8.894E-01	7.300E-02
24.340	8.732E-01	7.241E-02

TIME	CO	H2S
24.360	8.666E-01	7.315E-02
24.380	8.738E-01	7.480E-02
24.400	8.522E-01	7.625E-02
24.420	8.603E-01	7.767E-02
24.440	8.565E-01	8.106E-02
24.460	8.700E-01	8.442E-02
24.480	8.720E-01	8.749E-02
24.500	8.710E-01	9.047E-02
24.520	8.757E-01	9.413E-02
24.540	8.843E-01	9.837E-02
24.560	8.990E-01	1.017E-01
24.580	9.028E-01	1.019E-01
1.000	9.024E-01	1.020E-01
1.020	9.258E-01	1.064E-01
1.040	9.081E-01	1.073E-01
1.060	8.864E-01	1.071E-01
1.080	8.578E-01	1.064E-01
1.100	8.352E-01	1.060E-01
1.120	7.989E-01	1.031E-01
1.140	7.853E-01	1.005E-01
1.160	7.564E-01	9.726E-02
1.180	7.388E-01	9.546E-02
1.200	7.271E-01	9.321E-02
1.220	7.147E-01	9.116E-02
1.240	7.321E-01	9.021E-02
1.260	7.232E-01	8.891E-02
1.280	7.277E-01	9.068E-02
1.300	7.214E-01	9.123E-02
1.320	6.922E-01	8.705E-02
1.340	6.893E-01	9.016E-02
1.360	6.970E-01	9.660E-02
1.380	7.057E-01	9.774E-02
1.400	7.059E-01	9.987E-02
1.420	7.002E-01	1.091E-01
1.440	6.881E-01	1.226E-01
1.460	6.862E-01	1.330E-01
1.480	6.829E-01	1.430E-01
1.500	6.773E-01	1.464E-01
1.520	6.672E-01	1.478E-01
1.540	6.007E-01	1.464E-01
1.560	5.951E-01	1.449E-01
1.580	5.850E-01	1.430E-01
2.000	5.823E-01	1.415E-01
2.020	5.800E-01	1.403E-01
2.040	5.816E-01	1.353E-01
2.060	5.816E-01	1.289E-01
2.080	5.681E-01	1.269E-01
2.100	5.475E-01	1.223E-01
2.120	5.328E-01	1.102E-01
2.140	5.093E-01	9.282E-02
2.160	4.945E-01	7.974E-02
2.180	4.810E-01	6.607E-02
2.200	4.713E-01	5.937E-02
2.220	4.626E-01	5.475E-02
2.240	4.573E-01	5.106E-02
2.260	4.332E-01	4.746E-02
2.280	4.123E-01	4.360E-02
2.300	3.950E-01	4.028E-02
2.320	3.819E-01	3.755E-02
2.340	3.711E-01	3.507E-02
2.360	3.405E-01	3.085E-02
2.380	3.403E-01	2.830E-02
2.400	3.541E-01	2.771E-02
2.420	3.669E-01	2.926E-02
2.440	3.811E-01	2.934E-02
2.460	3.811E-01	2.892E-02
2.480	3.975E-01	2.914E-02
2.500	4.203E-01	3.060E-02
2.520	4.408E-01	3.191E-02
2.540	4.654E-01	3.384E-02
2.560	4.764E-01	3.517E-02
2.580	4.899E-01	3.648E-02

TIME	CO	H2S
3.000	5.015E-01	3.783E-02
3.020	5.200E-01	3.996E-02
3.040	5.299E-01	4.171E-02
3.060	5.469E-01	5.129E-02
3.080	5.500E-01	7.047E-02
3.100	5.339E-01	8.892E-02
3.120	5.219E-01	9.313E-02
3.140	5.245E-01	9.841E-02
3.160	5.271E-01	1.026E-01
3.180	5.199E-01	1.182E-01
3.200	5.062E-01	1.304E-01
3.220	4.989E-01	1.369E-01
3.240	4.766E-01	1.395E-01
3.260	4.687E-01	1.466E-01
3.280	4.582E-01	1.565E-01
3.300	4.473E-01	1.715E-01
3.320	4.324E-01	1.901E-01
3.340	4.197E-01	2.037E-01
3.360	4.062E-01	2.114E-01
3.380	3.908E-01	2.008E-01
3.400	3.998E-01	1.954E-01
3.420	4.056E-01	1.994E-01
3.440	3.984E-01	2.145E-01
3.460	3.906E-01	2.295E-01
3.480	3.782E-01	2.381E-01
3.500	3.667E-01	2.621E-01
3.520	3.501E-01	2.855E-01
3.540	3.413E-01	2.989E-01
3.560	3.287E-01	3.122E-01
3.580	3.203E-01	3.307E-01
4.000	3.082E-01	3.475E-01
4.020	2.897E-01	3.482E-01
4.040	2.710E-01	3.453E-01
4.060	2.606E-01	3.390E-01
4.080	2.466E-01	3.484E-01
4.100	2.245E-01	3.547E-01
4.120	1.956E-01	3.625E-01
4.140	1.761E-01	3.647E-01
4.160	1.630E-01	3.685E-01
4.180	1.589E-01	3.652E-01
4.200	1.568E-01	3.471E-01
4.220	1.591E-01	3.359E-01
4.240	1.628E-01	3.276E-01
4.260	1.762E-01	3.183E-01
4.280	1.879E-01	2.969E-01
4.300	2.000E-01	2.798E-01
4.320	2.215E-01	2.701E-01
4.340	2.505E-01	2.670E-01
4.360	2.710E-01	2.710E-01
4.380	3.063E-01	2.639E-01
4.400	3.021E-01	2.535E-01
4.420	3.397E-01	2.489E-01
4.440	3.765E-01	2.361E-01
4.460	4.203E-01	2.262E-01
4.480	4.571E-01	2.228E-01
4.500	4.892E-01	2.189E-01
4.520	5.260E-01	2.134E-01
4.540	5.628E-01	2.183E-01
4.560	5.993E-01	2.184E-01
4.580	6.407E-01	2.357E-01
5.000	7.032E-01	2.453E-01
5.020	7.783E-01	2.541E-01
5.040	8.595E-01	2.619E-01
5.060	9.485E-01	2.651E-01
5.080	1.057E+00	2.703E-01
5.100	1.209E+00	2.855E-01
5.120	1.332E+00	2.990E-01
5.140	1.463E+00	3.178E-01
5.160	1.591E+00	3.344E-01
5.180	1.710E+00	3.371E-01
5.200	1.838E+00	3.455E-01
5.220	1.953E+00	3.610E-01

TIME	CO	H2S
7.480	3.427E+00	7.434E-02
7.500	3.426E+00	7.778E-02
7.520	3.398E+00	8.574E-02
7.540	3.366E+00	8.973E-02
7.560	3.334E+00	9.231E-02
7.580	3.321E+00	9.418E-02
8.000	3.308E+00	9.649E-02
8.020	3.265E+00	9.810E-02
8.040	3.225E+00	1.024E-01
8.060	3.145E+00	1.114E-01
8.080	3.103E+00	1.091E-01
8.100	3.422E+00	1.146E-01
8.120	3.392E+00	1.211E-01
8.140	3.329E+00	1.306E-01
8.160	3.263E+00	1.321E-01
8.180	3.253E+00	1.376E-01
8.200	3.234E+00	1.426E-01
8.220	3.186E+00	1.409E-01
8.240	3.007E+00	1.427E-01
8.260	3.074E+00	1.465E-01
8.280	3.030E+00	1.470E-01
8.300	2.963E+00	1.476E-01
8.320	2.949E+00	1.494E-01
8.340	3.228E+00	1.481E-01
8.360	3.25EE+00	1.399E-01
8.380	3.271E+00	1.444E-01
8.400	2.884E+00	1.356E-01
8.420	3.031E+00	1.288E-01
8.440	3.108E+00	1.165E-01
8.460	3.327E+00	1.093E-01
8.480	3.280E+00	1.001E-01
8.500	3.279E+00	9.428E-02
8.520	3.279E+00	9.078E-02
8.540	3.459E+00	8.729E-02
8.560	3.381E+00	8.315E-02
8.580	3.584E+00	8.315E-02
9.000	3.791E+00	8.193E-02
9.020	3.865E+00	7.971E-02
9.040	3.934E+00	7.784E-02
9.060	3.972E+00	7.561E-02
9.080	4.067E+00	6.395E-02
9.100	4.207E+00	6.313E-02
9.120	4.069E+00	5.784E-02
9.140	3.994E+00	5.567E-02
9.160	3.747E+00	5.320E-02
9.180	3.753E+00	5.045E-02
9.200	3.933E+00	4.791E-02
9.220	3.950E+00	4.502E-02
9.240	3.895E+00	4.306E-02
9.260	4.197E+00	5.381E-02
9.280	3.813E+00	4.948E-02
9.300	3.461E+00	4.567E-02
9.320	3.218E+00	4.201E-02
9.340	2.680E+00	3.858E-02
9.360	2.462E+00	3.544E-02
9.380	2.177E+00	3.267E-02
9.400	1.890E+00	3.022E-02
9.420	1.687E+00	2.798E-02

STATISTICS

POLLUTANT	NUMBER OF READINGS	ARITHMETIC MEAN	STANDARD DEVIATION	GEOMETRIC MEAN	GEOMETRIC STANDARD DEVIATION
CO	416	1.693E+00	1.191E+00	1.253E+00	2.299E+00
H2S	416	1.291E-01	9.137E-02	9.597E-02	2.403E+00

SURVEY: FT FRANCES #25

DATE NOV 19 1974 SCAN TIME 30 SEC AVERAGING TIME 30 MIN

TIME	CO	H2S
9.310	1.786E+00	1.240E-01
9.315	1.791E+00	1.233E-01
9.320	1.788E+00	1.231E-01
9.325	1.775E+00	1.228E-01
9.330	1.759E+00	1.225E-01
9.335	1.766E+00	1.220E-01
9.340	1.764E+00	1.223E-01
9.345	1.755E+00	1.220E-01
9.350	1.748E+00	1.217E-01
9.355	1.735E+00	1.206E-01
9.360	1.713E+00	1.195E-01
9.365	1.700E+00	1.181E-01
9.370	1.703E+00	1.170E-01
9.375	1.704E+00	1.172E-01
9.380	1.716E+00	1.180E-01
9.385	1.740E+00	1.189E-01
9.390	1.748E+00	1.206E-01
9.395	1.748E+00	1.214E-01
9.400	1.761E+00	1.217E-01
9.405	1.771E+00	1.225E-01
9.410	1.779E+00	1.232E-01
9.415	1.782E+00	1.237E-01
9.420	1.794E+00	1.241E-01
9.425	1.788E+00	1.237E-01
9.430	1.792E+00	1.236E-01
9.435	1.784E+00	1.230E-01
9.440	1.797E+00	1.226E-01
9.445	1.806E+00	1.227E-01
9.450	1.809E+00	1.227E-01
9.455	1.808E+00	1.227E-01
9.460	1.808E+00	1.224E-01
9.465	1.802E+00	1.219E-01
9.470	1.799E+00	1.204E-01
9.475	1.799E+00	1.201E-01
9.480	1.786E+00	1.188E-01
9.485	1.767E+00	1.172E-01
9.490	1.765E+00	1.156E-01
9.495	1.767E+00	1.148E-01
9.500	1.768E+00	1.145E-01
9.505	1.770E+00	1.144E-01
9.510	1.776E+00	1.137E-01
9.515	1.791E+00	1.135E-01
9.520	1.804E+00	1.134E-01
9.525	1.815E+00	1.133E-01
9.530	1.815E+00	1.129E-01
9.535	1.820E+00	1.123E-01
9.540	1.832E+00	1.122E-01
9.545	1.833E+00	1.118E-01
9.550	1.837E+00	1.114E-01
9.555	1.845E+00	1.113E-01
9.560	1.846E+00	1.108E-01
9.565	1.846E+00	1.100E-01
9.570	1.846E+00	1.096E-01
9.575	1.846E+00	1.090E-01
9.580	1.848E+00	1.093E-01
9.585	1.842E+00	1.093E-01
9.590	1.847E+00	1.094E-01
9.595	1.857E+00	1.096E-01
10.000	1.869E+00	1.104E-01
10.005	1.868E+00	1.106E-01
10.010	1.872E+00	1.104E-01
10.015	1.869E+00	1.099E-01
10.020	1.872E+00	1.096E-01
10.025	1.878E+00	1.101E-01
10.030	1.874E+00	1.104E-01
10.035	1.863E+00	1.098E-01
10.040	1.856E+00	1.090E-01
10.045	1.853E+00	1.087E-01
10.050	1.856E+00	1.084E-01
10.055	1.853E+00	1.080E-01

TIME	CO	H2S
10.060	1.845E+00	1.072E-01
10.065	1.841E+00	1.065E-01
10.070	1.840E+00	1.061E-01
10.075	1.842E+00	1.059E-01
10.080	1.831E+00	1.029E-01
10.085	1.805E+00	1.007E-01
10.090	1.784E+00	9.732E-02
10.095	1.777E+00	9.465E-02
10.100	1.763E+00	9.320E-02
10.105	1.757E+00	9.128E-02
10.110	1.761E+00	9.003E-02
10.115	1.763E+00	8.943E-02
10.120	1.756E+00	8.865E-02
10.125	1.744E+00	8.751E-02
10.130	1.742E+00	8.625E-02
10.135	1.736E+00	8.477E-02
10.140	1.728E+00	8.394E-02
10.145	1.724E+00	8.265E-02
10.150	1.734E+00	8.170E-02
10.155	1.735E+00	8.100E-02
10.160	1.738E+00	8.053E-02
10.165	1.731E+00	8.021E-02
10.170	1.727E+00	7.961E-02
10.175	1.730E+00	7.859E-02
10.180	1.730E+00	7.837E-02
10.185	1.744E+00	7.793E-02
10.190	1.763E+00	7.748E-02
10.195	1.776E+00	7.712E-02
10.200	1.793E+00	7.696E-02
10.205	1.814E+00	7.691E-02
10.210	1.826E+00	7.657E-02
10.215	1.820E+00	7.546E-02
10.220	1.836E+00	7.506E-02
10.225	1.845E+00	7.489E-02
10.230	1.867E+00	7.519E-02
10.235	1.878E+00	7.496E-02
10.240	1.888E+00	7.460E-02
10.245	1.904E+00	7.438E-02
10.250	1.919E+00	7.420E-02
10.255	1.934E+00	7.394E-02
10.260	1.950E+00	7.357E-02
10.265	1.962E+00	7.333E-02
10.270	1.972E+00	7.274E-02
10.275	1.985E+00	7.223E-02
10.280	1.999E+00	7.112E-02
10.285	2.016E+00	7.039E-02
10.290	2.024E+00	6.931E-02
10.295	2.021E+00	6.822E-02
10.300	2.023E+00	6.659E-02
10.305	2.044E+00	6.603E-02
10.310	2.045E+00	6.590E-02
10.315	2.058E+00	6.526E-02
10.320	2.071E+00	6.457E-02
10.325	2.078E+00	6.355E-02
10.330	2.093E+00	6.265E-02
10.335	2.117E+00	6.342E-02
10.340	2.133E+00	6.259E-02
10.345	2.160E+00	6.292E-02
10.350	2.178E+00	6.323E-02
10.355	2.204E+00	6.371E-02
10.360	2.227E+00	6.450E-02
10.365	2.248E+00	6.540E-02
10.370	2.269E+00	6.597E-02
10.375	2.294E+00	6.672E-02
10.380	2.317E+00	6.755E-02
10.385	2.345E+00	6.805E-02
10.390	2.349E+00	6.938E-02
10.395	2.352E+00	6.877E-02
10.400	2.361E+00	6.909E-02
10.405	2.360E+00	6.975E-02
10.410	2.355E+00	6.974E-02
10.415	2.348E+00	6.895E-02

TIME	CO	H2S
10.420	2.360E+00	6.864E-02
10.425	2.371E+00	6.891E-02
10.430	2.384E+00	6.976E-02
10.435	2.392E+00	7.038E-02
10.440	2.392E+00	7.090E-02
10.445	2.397E+00	7.121E-02
10.450	2.391E+00	7.137E-02
10.455	2.387E+00	7.158E-02
10.460	2.386E+00	7.129E-02
10.465	2.394E+00	7.123E-02
10.470	2.395E+00	7.130E-02
10.475	2.396E+00	7.150E-02
10.480	2.406E+00	7.206E-02
10.485	2.411E+00	7.280E-02
10.490	2.420E+00	7.389E-02
10.495	2.439E+00	7.644E-02
10.500	2.454E+00	7.926E-02
10.505	2.442E+00	8.057E-02
10.510	2.431E+00	8.375E-02
10.515	2.468E+00	8.656E-02
10.520	2.500E+00	9.242E-02
10.525	2.490E+00	9.555E-02
10.530	2.485E+00	9.744E-02
10.535	2.494E+00	1.000E-01
10.540	2.491E+00	1.017E-01
10.545	2.486E+00	1.036E-01
10.550	2.474E+00	1.049E-01
10.555	2.470E+00	1.075E-01
10.560	2.464E+00	1.092E-01
10.565	2.461E+00	1.123E-01
10.570	2.460E+00	1.147E-01
10.575	2.461E+00	1.172E-01
10.580	2.453E+00	1.198E-01
10.585	2.454E+00	1.224E-01
10.590	2.469E+00	1.244E-01
10.595	2.486E+00	1.260E-01
11.000	2.502E+00	1.282E-01
11.005	2.501E+00	1.292E-01
11.010	2.514E+00	1.301E-01
11.015	2.517E+00	1.309E-01
11.020	2.522E+00	1.317E-01
11.025	2.527E+00	1.324E-01
11.030	2.523E+00	1.329E-01
11.035	2.517E+00	1.334E-01
11.040	2.521E+00	1.332E-01
11.045	2.523E+00	1.330E-01
11.050	2.516E+00	1.328E-01
11.055	2.518E+00	1.326E-01
11.060	2.515E+00	1.323E-01
11.065	2.520E+00	1.320E-01
11.070	2.521E+00	1.319E-01
11.075	2.513E+00	1.314E-01
11.080	2.509E+00	1.307E-01
11.085	2.504E+00	1.302E-01
11.090	2.522E+00	1.299E-01
11.095	2.538E+00	1.304E-01
11.100	2.549E+00	1.305E-01
11.105	2.561E+00	1.301E-01
11.110	2.570E+00	1.297E-01
11.115	2.590E+00	1.300E-01
11.120	2.601E+00	1.307E-01
11.125	2.618E+00	1.312E-01
11.130	2.637E+00	1.312E-01
11.135	2.658E+00	1.304E-01
11.140	2.689E+00	1.304E-01
11.145	2.714E+00	1.308E-01
11.150	2.729E+00	1.314E-01
11.155	2.750E+00	1.315E-01
11.160	2.767E+00	1.319E-01
11.165	2.795E+00	1.325E-01
11.170	2.812E+00	1.327E-01
11.175	2.820E+00	1.327E-01

TIME	CO	H2S
11.180	2.826E+00	1.332E-01
11.185	2.828E+00	1.326E-01
11.190	2.814E+00	1.[illegible]E-01
11.195	2.800E+00	1.[illegible]E-01
11.200	2.783E+00	1.[illegible]E-01
11.205	2.784E+00	1.[illegible]E-01
11.210	2.792E+00	1.[illegible]E-01
11.215	2.760E+00	1.201E-01
11.220	2.729E+00	1.140E-01
11.225	2.734E+00	1.107E-01
11.230	2.733E+00	1.087E-01
11.235	2.716E+00	1.062E-01
11.240	2.704E+00	1.047E-01
11.245	2.695E+00	1.029E-01
11.250	2.692E+00	1.016E-01
11.255	2.672E+00	9.898E-02
11.260	2.659E+00	9.734E-02
11.265	2.652E+00	9.427E-02
11.270	2.646E+00	9.187E-02
11.275	2.629E+00	8.932E-02
11.280	2.619E+00	8.680E-02
11.285	2.599E+00	8.408E-02
11.290	2.578E+00	8.199E-02
11.295	2.550E+00	8.078E-02
11.300	2.524E+00	7.890E-02
11.305	2.502E+00	7.782E-02
11.310	2.490E+00	7.741E-02
11.315	2.484E+00	7.771E-02
11.320	2.477E+00	7.885E-02
11.325	2.461E+00	7.937E-02
11.330	2.457E+00	7.955E-02
11.335	2.446E+00	7.989E-02
11.340	2.443E+00	8.040E-02
11.345	2.421E+00	8.060E-02
11.350	2.410E+00	8.092E-02
11.355	2.390E+00	8.123E-02
11.360	2.373E+00	8.109E-02
11.365	2.354E+00	8.077E-02
11.370	2.338E+00	8.060E-02
11.375	2.331E+00	8.174E-02
11.380	2.316E+00	8.203E-02
11.385	2.292E+00	8.270E-02
11.390	2.276E+00	8.343E-02
11.395	2.256E+00	8.336E-02
11.400	2.236E+00	8.274E-02
11.405	2.218E+00	8.250E-02
11.410	2.206E+00	8.219E-02
11.415	2.188E+00	8.179E-02
11.420	2.170E+00	8.126E-02
11.425	2.145E+00	8.027E-02
11.430	2.115E+00	7.943E-02
11.435	2.090E+00	7.905E-02
11.440	2.056E+00	7.888E-02
11.445	2.036E+00	7.826E-02
11.450	2.026E+00	7.880E-02
11.455	2.019E+00	7.873E-02
11.460	2.013E+00	7.853E-02
11.465	2.005E+00	7.838E-02
11.470	2.001E+00	7.811E-02
11.475	2.000E+00	7.768E-02
11.480	1.997E+00	7.746E-02
11.485	1.991E+00	7.734E-02
11.490	1.994E+00	7.722E-02
11.495	1.985E+00	7.627E-02
11.500	1.994E+00	7.537E-02
11.505	1.997E+00	7.538E-02
11.510	2.003E+00	7.508E-02
11.515	2.010E+00	7.524E-02
11.520	2.014E+00	7.537E-02
11.525	2.024E+00	7.625E-02
11.530	2.024E+00	7.646E-02
11.535	2.037E+00	7.672E-02

TIME	CO	H2S
11.540	2.051E+00	7.773E-02
11.545	2.064E+00	7.815E-02
11.550	2.076E+00	7.838E-02
11.555	2.095E+00	7.897E-02
11.560	2.104E+00	7.872E-02
11.565	2.115E+00	7.863E-02
11.570	2.126E+00	7.876E-02
11.575	2.139E+00	7.883E-02
11.580	2.163E+00	7.949E-02
11.585	2.194E+00	8.070E-02
11.590	2.205E+00	8.170E-02
11.595	2.222E+00	8.167E-02
12.000	2.226E+00	8.166E-02
12.005	2.244E+00	8.194E-02
12.010	2.261E+00	8.174E-02
12.015	2.274E+00	8.105E-02
12.020	2.285E+00	7.969E-02
12.025	2.307E+00	7.930E-02
12.030	2.321E+00	7.941E-02
12.035	2.340E+00	7.933E-02
12.040	2.346E+00	7.883E-02
12.045	2.364E+00	7.864E-02
12.050	2.376E+00	7.833E-02
12.055	2.396E+00	7.815E-02
12.060	2.409E+00	7.843E-02
12.065	2.430E+00	7.857E-02
12.070	2.444E+00	7.957E-02
12.075	2.464E+00	7.936E-02
12.080	2.483E+00	7.929E-02
12.085	2.523E+00	7.938E-02
12.090	2.539E+00	7.926E-02
12.095	2.558E+00	7.932E-02
12.100	2.578E+00	7.967E-02
12.105	2.610E+00	8.035E-02
12.110	2.629E+00	8.174E-02
12.115	2.645E+00	8.217E-02
12.120	2.667E+00	8.234E-02
12.125	2.640E+00	8.151E-02
12.130	2.608E+00	8.059E-02
12.135	2.582E+00	7.952E-02
12.140	2.557E+00	7.824E-02
12.145	2.523E+00	7.671E-02
12.150	2.489E+00	7.516E-02
12.155	2.450E+00	7.403E-02
12.160	2.408E+00	7.307E-02

STATISTICS

POLLUTANT	NUMBER OF REMAINING	ARITHMETIC MEAN	STANDARD DEVIATION	GEOMETRIC MEAN	GEOMETRIC STANDARD
CO	3.1	[illegible]	[illegible]	[illegible]	[illegible]
H2S	3.1	[illegible]	[illegible]	[illegible]	[illegible]

SURVEY: FT FRANCES #26

DATE NOV 19 1974 SCAN TIME 30 SEC AVERAGING TIME 0 MIN

TIME	CO	H2S
15.160	2.358E+00	7.[illegible]
15.165	2.387E+00	7.[illegible]
15.170	2.395E+00	7.[illegible]
15.175	2.411E+00	8.[illegible]
15.180	2.421E+00	8.181E-02
15.185	2.432E+00	8.192E-02
15.190	2.427E+00	8.262E-02
15.195	2.432E+00	8.315E-02
15.200	2.439E+00	8.262E-02
15.205	2.442E+00	8.242E-02
15.210	2.450E+00	8.279E-02
15.215	2.449E+00	8.299E-02
15.220	2.456E+00	8.334E-02
15.225	2.467E+00	8.360E-02
15.230	2.464E+00	8.388E-02
15.235	2.449E+00	8.404E-02
15.240	2.444E+00	8.418E-02
15.245	2.439E+00	8.417E-02
15.250	2.426E+00	8.555E-02
15.255	2.406E+00	8.462E-02
15.260	2.399E+00	8.426E-02
15.265	2.396E+00	8.446E-02
15.270	2.395E+00	8.553E-02
15.275	2.395E+00	8.752E-02
15.280	2.383E+00	8.855E-02
15.285	2.375E+00	8.908E-02
15.290	2.356E+00	8.967E-02
15.295	2.335E+00	8.853E-02
15.300	2.321E+00	8.806E-02
15.305	2.301E+00	8.799E-02
15.310	2.295E+00	8.797E-02
15.315	2.285E+00	8.832E-02
15.320	2.271E+00	8.855E-02
15.325	2.261E+00	8.863E-02
15.330	2.244E+00	8.862E-02
15.335	2.231E+00	8.867E-02
15.340	2.226E+00	8.901E-02
15.345	2.229E+00	8.983E-02
15.350	2.221E+00	9.076E-02
15.355	2.220E+00	9.168E-02
15.360	2.228E+00	9.447E-02
15.365	2.224E+00	9.665E-02
15.370	2.216E+00	9.769E-02
15.375	2.213E+00	9.886E-02
15.380	2.213E+00	1.013E-01
15.385	2.208E+00	1.065E-01
15.390	2.206E+00	1.087E-01
15.395	2.199E+00	1.108E-01
15.400	2.183E+00	1.120E-01
15.405	2.169E+00	1.128E-01
15.410	2.160E+00	1.136E-01
15.415	2.143E+00	1.145E-01
15.420	2.124E+00	1.150E-01
15.425	2.124E+00	1.152E-01
15.430	2.119E+00	1.152E-01
15.435	2.111E+00	1.153E-01
15.440	2.121E+00	1.156E-01
15.445	2.123E+00	1.161E-01
15.450	2.117E+00	1.163E-01
15.455	2.087E+00	1.168E-01
15.460	2.043E+00	1.117E-01
15.465	2.024E+00	1.079E-01
15.470	2.019E+00	1.048E-01
15.475	2.011E+00	1.036E-01
15.480	2.009E+00	1.027E-01
15.485	2.009E+00	1.023E-01
15.490	2.004E+00	1.017E-01
15.495	2.000E+00	1.001E-01
15.500	2.001E+00	9.982E-02
15.505	2.000E+00	9.958E-02

TIME	CO	H2S
15.510	2.016E+00	9.947E-02
15.515	2.056E+00	1.002E-01
15.520	2.066E+00	1.017E-01
15.525	2.075E+00	1.022E-01
15.530	2.085E+00	1.023E-01
15.535	2.097E+00	1.028E-01
15.540	2.117E+00	1.030E-01
15.545	2.131E+00	1.041E-01
15.550	2.152E+00	1.033E-01
15.555	2.179E+00	1.034E-01
15.560	2.203E+00	1.031E-01
15.565	2.210E+00	1.029E-01
15.570	2.215E+00	1.013E-01
15.575	2.222E+00	9.886E-02
15.580	2.245E+00	9.783E-02
15.585	2.264E+00	9.741E-02
15.590	2.277E+00	9.691E-02
15.595	2.292E+00	9.667E-02
16.000	2.302E+00	9.621E-02
16.005	2.319E+00	9.562E-02
16.010	2.330E+00	9.512E-02
16.015	2.347E+00	9.444E-02
16.020	2.368E+00	9.396E-02
16.025	2.401E+00	9.360E-02
16.030	2.427E+00	9.309E-02
16.035	2.446E+00	9.262E-02
16.040	2.464E+00	9.202E-02
16.045	2.470E+00	9.099E-02
16.050	2.475E+00	8.963E-02
16.055	2.474E+00	8.809E-02
16.060	2.685E+00	8.522E-02
16.065	2.718E+00	8.282E-02
16.070	2.705E+00	8.159E-02
16.075	2.726E+00	8.017E-02
16.080	2.721E+00	7.749E-02
16.085	2.714E+00	7.194E-02
16.090	2.734E+00	6.987E-02
16.095	2.782E+00	6.843E-02
16.100	2.839E+00	6.778E-02
16.105	2.912E+00	6.732E-02
16.110	2.950E+00	6.673E-02
16.115	2.967E+00	6.596E-02
16.120	2.990E+00	6.561E-02
16.125	2.986E+00	6.530E-02
16.130	3.000E+00	6.492E-02
16.135	2.995E+00	6.462E-02
16.140	2.979E+00	6.410E-02
16.145	2.973E+00	6.342E-02
16.150	2.973E+00	6.292E-02
16.155	2.971E+00	6.240E-02
16.160	2.972E+00	6.201E-02
16.165	2.970E+00	6.129E-02
16.170	2.964E+00	6.070E-02
16.175	2.965E+00	6.029E-02
16.180	2.964E+00	5.976E-02
16.185	2.960E+00	5.918E-02
16.190	2.960E+00	5.883E-02
16.195	2.958E+00	5.858E-02
16.200	2.969E+00	5.816E-02
16.205	2.980E+00	5.878E-02
16.210	2.970E+00	5.990E-02
16.215	2.940E+00	5.982E-02
16.220	2.929E+00	5.957E-02
16.225	2.909E+00	5.932E-02
16.230	2.898E+00	5.928E-02
16.235	2.885E+00	5.879E-02
16.240	2.860E+00	5.835E-02
16.245	2.836E+00	5.722E-02
16.250	2.814E+00	5.692E-02
16.255	2.793E+00	5.674E-02
16.260	2.775E+00	5.745E-02
16.265	2.754E+00	5.924E-02

TIME	CO	H2S
16.270	2.749E+00	6.159E-02
16.275	2.729E+00	6.293E-02
16.280	2.715E+00	6.366E-02
16.285	2.689E+00	6.448E-02
16.290	2.675E+00	6.501E-02
16.295	2.667E+00	6.537E-02
16.300	2.662E+00	6.601E-02
16.305	2.654E+00	6.675E-02
16.310	2.639E+00	6.735E-02
16.315	2.619E+00	6.775E-02
16.320	2.610E+00	6.913E-02
16.325	2.586E+00	7.057E-02
16.330	2.569E+00	7.226E-02
16.335	2.547E+00	7.365E-02
16.340	2.541E+00	7.518E-02
16.345	2.523E+00	7.690E-02
16.350	2.505E+00	7.818E-02
16.355	2.501E+00	7.933E-02
16.360	2.288E+00	8.163E-02
16.365	2.254E+00	8.396E-02
16.370	2.263E+00	8.567E-02
16.375	2.235E+00	8.668E-02
16.380	2.220E+00	8.732E-02
16.385	2.215E+00	8.800E-02
16.390	2.195E+00	8.838E-02
16.395	2.138E+00	8.835E-02
16.400	2.088E+00	8.848E-02
16.405	2.010E+00	8.944E-02
16.410	1.974E+00	9.058E-02
16.415	1.962E+00	9.181E-02
16.420	1.945E+00	9.278E-02
16.425	1.943E+00	9.362E-02
16.430	1.926E+00	9.539E-02
16.435	1.921E+00	9.744E-02
16.440	1.918E+00	9.898E-02
16.445	1.910E+00	1.001E-01
16.450	1.900E+00	1.018E-01
16.455	1.892E+00	1.031E-01
16.460	1.883E+00	1.046E-01
16.465	1.870E+00	1.058E-01
16.470	1.858E+00	1.068E-01
16.475	1.843E+00	1.075E-01
16.480	1.828E+00	1.081E-01
16.485	1.816E+00	1.088E-01
16.490	1.799E+00	1.094E-01
16.495	1.783E+00	1.100E-01
16.500	1.750E+00	1.104E-01
16.505	1.728E+00	1.099E-01
16.510	1.716E+00	1.086E-01
16.515	1.716E+00	1.077E-01
16.520	1.710E+00	1.070E-01
16.525	1.716E+00	1.072E-01
16.530	1.725E+00	1.077E-01
16.535	1.719E+00	1.081E-01
16.540	1.717E+00	1.083E-01
16.545	1.715E+00	1.085E-01
16.550	1.706E+00	1.084E-01
16.555	1.692E+00	1.082E-01
16.560	1.673E+00	1.072E-01
16.565	1.717E+00	1.052E-01
16.570	1.706E+00	1.026E-01
16.575	1.715E+00	1.011E-01
16.580	1.715E+00	1.000E-01
16.585	1.725E+00	9.877E-02
16.590	1.728E+00	9.799E-02
16.595	1.729E+00	9.727E-02
17.000	1.729E+00	9.648E-02
17.005	1.732E+00	9.577E-02
17.010	1.735E+00	9.517E-02
17.015	1.748E+00	9.481E-02
17.020	1.749E+00	9.425E-02
17.025	1.755E+00	9.386E-02

TIME	CO	H2S
17.030	1.765E+00	9.322E-02
17.035	1.779E+00	9.340E-02
17.040	1.768E+00	9.333E-02
17.045	1.772E+00	9.220E-02
17.050	1.781E+00	9.140E-02
17.055	1.778E+00	9.066E-02
17.060	1.772E+00	8.876E-02
17.065	1.772E+00	8.675E-02
17.070	1.780E+00	8.543E-02
17.075	1.792E+00	8.485E-02
17.080	1.796E+00	8.450E-02
17.085	1.808E+00	8.491E-02
17.090	1.818E+00	8.485E-02
17.095	1.840E+00	8.539E-02
17.100	1.835E+00	8.556E-02
17.105	1.832E+00	8.469E-02
17.110	1.822E+00	8.354E-02
17.115	1.816E+00	8.238E-02
17.120	1.834E+00	8.136E-02
17.125	1.839E+00	8.042E-02
17.130	1.829E+00	7.916E-02
17.135	1.829E+00	7.718E-02
17.140	1.832E+00	7.579E-02
17.145	1.833E+00	7.464E-02
17.150	1.835E+00	7.308E-02
17.155	1.841E+00	7.173E-02
17.160	1.850E+00	7.055E-02
17.165	1.856E+00	6.956E-02
17.170	1.878E+00	6.889E-02
17.175	1.880E+00	6.838E-02
17.180	1.882E+00	6.793E-02
17.185	1.886E+00	6.738E-02
17.190	1.899E+00	6.674E-02
17.195	1.917E+00	6.625E-02
17.200	1.928E+00	6.616E-02
17.205	1.933E+00	6.601E-02
17.210	1.949E+00	6.571E-02
17.215	1.941E+00	6.544E-02
17.220	1.960E+00	6.435E-02
17.225	1.968E+00	6.327E-02
17.230	1.977E+00	6.250E-02
17.235	1.998E+00	6.217E-02
17.240	2.017E+00	6.198E-02
17.245	2.037E+00	6.207E-02
17.250	2.066E+00	6.222E-02
17.255	2.077E+00	6.246E-02
17.260	2.093E+00	6.268E-02
17.265	2.060E+00	6.287E-02
17.270	2.059E+00	6.309E-02
17.275	2.047E+00	6.326E-02
17.280	2.037E+00	6.347E-02
17.285	2.019E+00	6.363E-02
17.290	2.005E+00	6.366E-02
17.295	1.998E+00	6.365E-02
17.300	1.983E+00	6.357E-02
17.305	1.972E+00	6.339E-02
17.310	1.971E+00	6.324E-02
17.315	1.956E+00	6.308E-02
17.320	1.937E+00	6.210E-02
17.325	1.918E+00	6.091E-02
17.330	1.896E+00	5.972E-02
17.335	1.889E+00	5.797E-02
17.340	1.879E+00	5.706E-02
17.345	1.875E+00	5.693E-02
17.350	1.866E+00	5.680E-02
17.355	1.855E+00	5.656E-02
17.360	1.845E+00	5.644E-02
17.365	1.828E+00	5.627E-02
17.370	1.815E+00	5.598E-02
17.375	1.796E+00	5.565E-02
17.380	1.797E+00	5.528E-02
17.385	1.786E+00	5.419E-02

TIME	CO	H2S
17.390	1.821E+00	5.358E-02
17.395	1.795E+00	5.225E-02
17.400	1.794E+00	5.131E-02
17.405	1.794E+00	5.058E-02
17.410	1.794E+00	5.008E-02
17.415	1.802E+00	4.977E-02
17.420	1.778E+00	4.976E-02
17.425	1.765E+00	4.977E-02
17.430	1.763E+00	4.922E-02
17.435	1.756E+00	4.879E-02
17.440	1.748E+00	4.845E-02
17.445	1.738E+00	4.815E-02
17.450	1.740E+00	4.787E-02
17.455	1.726E+00	4.778E-02
17.460	1.714E+00	4.739E-02
17.465	1.705E+00	4.719E-02
17.470	1.687E+00	4.686E-02
17.475	1.687E+00	4.652E-02
17.480	1.689E+00	4.630E-02
17.485	1.690E+00	4.638E-02
17.490	1.678E+00	4.645E-02
17.495	1.666E+00	4.616E-02
17.500	1.660E+00	4.575E-02
17.505	1.656E+00	4.539E-02
17.510	1.645E+00	4.545E-02
17.515	1.642E+00	4.567E-02
17.520	1.626E+00	4.562E-02
17.525	1.616E+00	4.594E-02
17.530	1.601E+00	4.579E-02
17.535	1.588E+00	4.536E-02
17.540	1.570E+00	4.508E-02
17.545	1.569E+00	4.614E-02
17.550	1.554E+00	4.565E-02
17.555	1.558E+00	4.502E-02
17.560	1.554E+00	4.436E-02
17.565	1.552E+00	4.391E-02
17.570	1.561E+00	4.348E-02
17.575	1.569E+00	4.306E-02
17.580	1.581E+00	4.272E-02
17.585	1.601E+00	4.253E-02
17.590	1.617E+00	4.243E-02
17.595	1.640E+00	4.228E-02
18.000	1.673E+00	4.353E-02
18.005	1.697E+00	4.593E-02
18.010	1.702E+00	4.768E-02
18.015	1.717E+00	4.820E-02
18.020	1.732E+00	4.876E-02
18.025	1.745E+00	4.926E-02
18.030	1.759E+00	4.979E-02
18.035	1.761E+00	5.021E-02
18.040	1.771E+00	5.007E-02
18.045	1.776E+00	4.980E-02
18.050	1.792E+00	4.975E-02
18.055	1.802E+00	4.977E-02
18.060	1.814E+00	4.968E-02
18.065	1.850E+00	4.964E-02
18.070	1.863E+00	4.962E-02
18.075	1.877E+00	4.957E-02
18.080	1.884E+00	4.973E-02
18.085	1.891E+00	5.003E-02
18.090	1.854E+00	5.000E-02
18.095	1.868E+00	5.015E-02
18.100	1.878E+00	5.015E-02
18.105	1.897E+00	5.025E-02
18.110	1.923E+00	5.187E-02
18.115	1.932E+00	5.291E-02
18.120	1.944E+00	5.310E-02
18.125	1.951E+00	5.309E-02
18.130	1.970E+00	5.318E-02
18.135	1.984E+00	5.343E-02
18.140	1.998E+00	5.372E-02
18.145	2.020E+00	5.401E-02

TIME	CO	H2S
18.150	2.027E+00	5.421E-02
18.155	2.050E+00	5.438E-02
18.160	2.065E+00	5.451E-02
18.165	2.085E+00	5.462E-02
18.170	2.100E+00	5.471E-02
18.175	2.112E+00	5.478E-02
18.180	2.122E+00	5.475E-02
18.185	2.131E+00	5.484E-02
18.190	2.147E+00	5.475E-02
18.195	2.153E+00	5.473E-02
18.200	2.159E+00	5.456E-02
18.205	2.166E+00	5.462E-02
18.210	2.171E+00	5.426E-02
18.215	2.174E+00	5.380E-02
18.220	2.181E+00	5.358E-02
18.225	2.191E+00	5.305E-02
18.230	2.202E+00	5.273E-02
18.235	2.216E+00	5.253E-02
18.240	2.212E+00	5.264E-02
18.245	2.196E+00	5.117E-02
18.250	2.183E+00	5.118E-02
18.255	2.169E+00	5.121E-02
18.260	2.157E+00	5.135E-02
18.265	2.142E+00	5.135E-02
18.270	2.124E+00	5.126E-02
18.275	2.116E+00	5.142E-02
18.280	2.100E+00	5.177E-02
18.285	2.083E+00	5.201E-02
18.290	2.073E+00	5.232E-02
18.295	2.047E+00	5.260E-02
18.300	2.034E+00	5.193E-02
18.305	2.018E+00	5.139E-02
18.310	2.016E+00	5.187E-02
18.315	2.013E+00	5.301E-02
18.320	2.005E+00	5.441E-02
18.325	2.003E+00	5.628E-02
18.330	1.993E+00	5.785E-02
18.335	1.978E+00	5.876E-02
18.340	1.973E+00	5.985E-02
18.345	1.961E+00	6.067E-02
18.350	1.942E+00	6.109E-02
18.355	1.951E+00	6.143E-02
18.360	1.935E+00	6.182E-02
18.365	1.907E+00	6.217E-02
18.370	1.892E+00	6.249E-02
18.375	1.875E+00	6.275E-02
18.380	1.857E+00	6.280E-02
18.385	1.839E+00	6.259E-02
18.390	1.815E+00	6.243E-02
18.395	1.798E+00	6.230E-02
18.400	1.784E+00	6.230E-02
18.405	1.762E+00	6.228E-02
18.410	1.731E+00	6.065E-02
18.415	1.705E+00	5.943E-02
18.420	1.688E+00	5.889E-02
18.425	1.673E+00	5.858E-02
18.430	1.653E+00	5.824E-02
18.435	1.637E+00	5.790E-02
18.440	1.621E+00	5.748E-02
18.445	1.598E+00	5.711E-02
18.450	1.576E+00	5.676E-02
18.455	1.557E+00	5.637E-02
18.460	1.538E+00	5.605E-02
18.465	1.517E+00	5.571E-02
18.470	1.496E+00	5.542E-02
18.475	1.480E+00	5.523E-02
18.480	1.460E+00	5.506E-02
18.485	1.432E+00	5.453E-02
18.490	1.413E+00	5.424E-02
18.495	1.394E+00	5.403E-02
18.500	1.379E+00	5.385E-02
18.505	1.366E+00	5.356E-02

TIME	CO	H2S
18.510	1.347E+00	5.332E-02
18.515	1.333E+00	5.312E-02
18.520	1.326E+00	5.297E-02
18.525	1.316E+00	5.284E-02
18.530	1.307E+00	5.267E-02
18.535	1.298E+00	5.253E-02
18.540	1.310E+00	5.201E-02
18.545	1.317E+00	5.153E-02
18.550	1.326E+00	5.105E-02
18.555	1.334E+00	5.059E-02
18.560	1.344E+00	5.013E-02
18.565	1.358E+00	4.971E-02
18.570	1.364E+00	4.942E-02
18.575	1.372E+00	4.896E-02
18.580	1.386E+00	4.816E-02
18.585	1.400E+00	4.742E-02
18.590	1.407E+00	4.677E-02
18.595	1.416E+00	4.607E-02
19.000	1.405E+00	4.521E-02
19.005	1.404E+00	4.286E-02
19.010	1.402E+00	4.028E-02
19.015	1.396E+00	3.827E-02
19.020	1.397E+00	3.602E-02
19.025	1.409E+00	3.339E-02
19.030	1.417E+00	3.105E-02
19.035	1.423E+00	2.949E-02
19.040	1.421E+00	2.748E-02
19.045	1.430E+00	2.597E-02
19.050	1.442E+00	2.488E-02
19.055	1.433E+00	2.417E-02
19.060	1.438E+00	2.333E-02
19.065	1.444E+00	2.259E-02
19.070	1.458E+00	2.191E-02
19.075	1.466E+00	2.133E-02
19.080	1.476E+00	2.081E-02
19.085	1.495E+00	2.035E-02
19.090	1.513E+00	2.001E-02
19.095	1.526E+00	1.965E-02
19.100	1.534E+00	1.929E-02
19.105	1.543E+00	1.890E-02
19.110	1.560E+00	1.855E-02
19.115	1.575E+00	1.834E-02
19.120	1.599E+00	1.828E-02
19.125	1.618E+00	1.898E-02
19.130	1.627E+00	1.917E-02
19.135	1.639E+00	1.923E-02
19.140	1.650E+00	1.920E-02
19.145	1.664E+00	1.914E-02
19.150	1.677E+00	1.908E-02
19.155	1.681E+00	1.898E-02
19.160	1.688E+00	1.888E-02
19.165	1.692E+00	1.876E-02
19.170	1.705E+00	1.864E-02
19.175	1.716E+00	1.851E-02
19.180	1.729E+00	1.837E-02
19.185	1.746E+00	1.899E-02
19.190	1.755E+00	1.896E-02
19.195	1.770E+00	1.916E-02
19.200	1.785E+00	1.960E-02
19.205	1.793E+00	1.971E-02
19.210	1.805E+00	1.976E-02
19.215	1.812E+00	1.980E-02
19.220	1.818E+00	1.981E-02
19.225	1.813E+00	1.984E-02
19.230	1.813E+00	1.984E-02
19.235	1.808E+00	1.987E-02
19.240	1.807E+00	1.990E-02
19.245	1.810E+00	2.004E-02
19.250	1.810E+00	2.036E-02
19.255	1.811E+00	2.073E-02
19.260	1.814E+00	2.104E-02
19.265	1.813E+00	2.137E-02

TIME	CO	H2S
19.270	1.823E+00	2.164E-02
19.275	1.836E+00	2.302E-02
19.280	1.838E+00	2.434E-02
19.285	1.841E+00	2.542E-02
19.290	1.843E+00	2.670E-02
19.295	1.842E+00	2.796E-02
19.300	1.839E+00	2.806E-02
19.305	1.832E+00	2.852E-02
19.310	1.832E+00	2.894E-02
19.315	1.831E+00	2.914E-02
19.320	1.817E+00	2.950E-02
19.325	1.789E+00	3.021E-02
19.330	1.767E+00	3.094E-02
19.335	1.755E+00	3.142E-02
19.340	1.743E+00	3.191E-02
19.345	1.726E+00	3.234E-02
19.350	1.704E+00	3.267E-02
19.355	1.685E+00	3.275E-02
19.360	1.672E+00	3.290E-02
19.365	1.657E+00	3.306E-02
19.370	1.638E+00	3.363E-02
19.375	1.619E+00	3.416E-02
19.380	1.604E+00	3.457E-02
19.385	1.583E+00	3.483E-02
19.390	1.561E+00	3.495E-02
19.395	1.544E+00	3.531E-02
19.400	1.526E+00	3.549E-02
19.405	1.514E+00	3.566E-02
19.410	1.498E+00	3.581E-02
19.415	1.482E+00	3.595E-02
19.420	1.454E+00	3.575E-02
19.425	1.429E+00	3.491E-02
19.430	1.411E+00	3.459E-02
19.435	1.396E+00	3.437E-02
19.440	1.381E+00	3.426E-02
19.445	1.367E+00	3.417E-02
19.450	1.354E+00	3.410E-02
19.455	1.340E+00	3.405E-02
19.460	1.315E+00	3.403E-02
19.465	1.304E+00	3.401E-02
19.470	1.286E+00	3.401E-02
19.475	1.272E+00	3.361E-02
19.480	1.257E+00	3.344E-02
19.485	1.239E+00	3.331E-02
19.490	1.224E+00	3.324E-02
19.495	1.206E+00	3.294E-02
19.500	1.188E+00	3.241E-02
19.505	1.166E+00	3.219E-02
19.510	1.152E+00	3.204E-02
19.515	1.143E+00	3.190E-02
19.520	1.125E+00	3.179E-02
19.525	1.114E+00	3.167E-02
19.530	1.102E+00	3.157E-02
19.535	1.087E+00	3.144E-02
19.540	1.075E+00	3.133E-02
19.545	1.055E+00	3.111E-02
19.550	1.021E+00	3.069E-02
19.555	9.996E-01	3.022E-02
19.560	9.838E-01	3.006E-02
19.565	9.634E-01	3.016E-02
19.570	9.424E-01	2.995E-02
19.575	9.091E-01	2.858E-02
19.580	8.878E-01	2.725E-02
19.585	8.602E-01	2.609E-02
19.590	8.411E-01	2.482E-02
19.595	8.137E-01	2.392E-02
20.000	7.987E-01	2.356E-02
20.005	7.835E-01	2.311E-02
20.010	7.690E-01	2.277E-02
20.015	7.541E-01	2.244E-02
20.020	7.718E-01	2.203E-02
20.025	7.681E-01	2.126E-02

TIME	CO	H2S
20.030	7.673E-01	2.047E-02
20.035	7.617E-01	1.993E-02
20.040	7.520E-01	1.939E-02
20.045	7.493E-01	1.891E-02
20.050	7.597E-01	1.860E-02
20.055	7.540E-01	1.918E-02
20.060	7.541E-01	1.926E-02
20.065	7.485E-01	1.928E-02
20.070	7.476E-01	1.934E-02
20.075	7.522E-01	1.897E-02
20.080	7.497E-01	1.891E-02
20.085	7.435E-01	1.885E-02
20.090	7.407E-01	1.877E-02
20.095	7.423E-01	1.853E-02
20.100	7.415E-01	1.850E-02
20.105	7.348E-01	1.847E-02
20.110	7.322E-01	1.842E-02
20.115	7.342E-01	1.842E-02
20.120	7.306E-01	1.844E-02
20.125	7.302E-01	1.844E-02
20.130	7.272E-01	1.842E-02
20.135	7.223E-01	1.839E-02
20.140	7.173E-01	1.836E-02
20.145	7.114E-01	1.831E-02
20.150	7.116E-01	1.826E-02
20.155	7.099E-01	1.820E-02
20.160	7.179E-01	1.815E-02
20.165	7.177E-01	1.809E-02
20.170	7.144E-01	1.804E-02
20.175	7.078E-01	1.799E-02
20.180	7.050E-01	1.794E-02
20.185	6.972E-01	1.788E-02
20.190	6.944E-01	1.781E-02
20.195	6.812E-01	1.775E-02
20.200	6.802E-01	1.768E-02
20.205	6.797E-01	1.763E-02
20.210	6.790E-01	1.761E-02
20.215	6.734E-01	1.756E-02
20.220	6.663E-01	1.751E-02
20.225	6.576E-01	1.753E-02
20.230	6.497E-01	1.771E-02
20.235	6.495E-01	1.779E-02
20.240	6.413E-01	1.782E-02
20.245	6.416E-01	1.781E-02
20.250	6.563E-01	1.780E-02
20.255	6.536E-01	1.779E-02
20.260	6.479E-01	1.744E-02
20.265	6.469E-01	1.699E-02
20.270	6.368E-01	1.682E-02
20.275	6.283E-01	1.671E-02
20.280	6.297E-01	1.660E-02
20.285	6.318E-01	1.652E-02
20.290	6.272E-01	1.644E-02
20.295	6.369E-01	1.636E-02
20.300	6.354E-01	1.610E-02
20.305	6.258E-01	1.587E-02
20.310	6.112E-01	1.565E-02

STATISTICS

POLLUTANT	NUMBER OF READINGS	ARITHMETIC MEAN	STANDARD DEVIATION	GEOMETRIC MEAN	GEOMETRIC STANDARD DEVIATION
CO	6[illegible]1	1.[illegible]	[illegible]	[illegible]	[illegible]
H_2S	6[illegible]	5.[illegible]	[illegible]	[illegible]	[illegible]

F Fraitsak

965-6343

Office location:
880 Bay Street,
4th Floor

March 5, 1975

MEMORANDUM

To: Mr. K. H. Sharpe,
Assistant Deputy Minister,
Environmental Assessment and Planning.

From: C. B. Martin,
Assistant Director,
Air Resources Branch.

Re: Justification for Purchase of Mobile Laboratory.

Requisition to Purchase No. 38688.

There are two bases of justification for a new mobile laboratory. They have to do with the present demands for mobile monitoring and future foreseeable needs.

The factors concerned with present uses involve the mobile lab. now in service. Although it is loaded with equipment (weighing 5000 lbs.), it is too small to handle all the instrumentation needed for some surveys and too small to allow additional needed services, such as adequate generated electrical power, work space, refrigerator for samples, etc. The value of instrumentation for the present van exceeds $70,000. This includes the pollutant monitors, meteorological instruments, data acquisition equipment, racks and panels, electric generators and air conditioner. These are too large and heavy for the small vehicle increasing the risk of overloading and breakdown.

It is also overloaded with work. A large backlog of requests for services demands that we obtain an additional van in order that two vans may be operative at the same time. At present, it is booked, by the Regions, for enough surveys to keep it fully engaged well into 1976.

To meet future needs and to handle the ever-increasing demand for services in air pollution monitoring and determination of new pollutants, such as vinyl chloride, PCB's, asbestos, etc., we require another mobile lab. able to carry a heavier load, and with less vibration and shock on the sensitive instruments.

There must be room for an additional generator, air conditioner, and refrigerator. We are presently purchasing a gas chromatograph instrument for mobile monitoring. There should also be room for future additional instrumentation such LIDAR and COSPEC if these become necessary.

The 23-foot GMC Trans-mode commercial vehicle will meet all these requirements, yet is not excessively large or hard to handle. We request, therefore, that we order this vehicle immediately so delivery may be assured this month.

C. B. Martin.

CBM:gc
Attch.

(8132)
MOE/FOR/REP/ALOC

MOE/FOR/REP/ALOC
Ontario Ministry of the En
Report on ambient
air quality survey alob
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